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British Medical Toilet Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Exeryl, Ltd.
Hayden Coffin T. P.

Jewebury & Brown

McKesson & Robbins

Maw, S., Son & Sons

Odol Chemical Works

Parke, Davis & Co.

Standard Tablet & Pill Co., Ltd.

Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)

Evans Sons Leecher & Webb, Ltd.

Express Developing Co.

Johnson & Sons (Mfg. Chts.)

DEXTRINE

Fink, F., & Co.

DIABETIC FOODS

Scott, R. M.

Van Abbot, G., & Sons

DIGESTIVE PRODUCTS

Fairchild Bros. & Foster

DISINFECTANTS

Baies Bros. & Stevenson, Ltd.

Burt, Boulton & Haywood, Ltd.

Chemical Union, Ltd.

Condy & Mitchell, Ltd.

Cook, E., & Co., Ltd.

Ellison, Henry, Ltd.

Sanitas Co., Ltd.

Willows, Francis B. & T.

Wright, Layman & Umney, Ltd.

DISINTEGRATORS

Hardy Patent Pick Co., Ltd.

DRUGGISTS' SUNDRIES

Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Brook, Parker & Co., Ltd.
Bryttele Manfg. Co.
Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Edwards, W., & Son
Evans Sons Leecher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.

Pothe, H., & Co.

Quelch, H. C., & Co.

Sangers

Schutse, F., & Co., Ltd.

Solport Bros.

Swales, Thomas

Toogood, W., Ltd.

Toser, J. V.

Wattenbach, O.

Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE

Gathergood's Exor.

Goodall, Backhouse & Co.

Potter & Clarke, Ltd.

Schmitt & Wildenhaya

EARTHENWARE JARS, &c.

Fulham Pottery & J. J. J.

Filter Co., Ltd.

EAU DE COLOGNE

Bronnley, H., & Co., Ltd.

Farina, J. M.

Farina, J. M. (No. 4)

Fickus, Courtenay & Co.

McCracken, J. & E.

Schutse, F., & Co., Ltd.

EDUCATIONAL INSTITS.

Bath & West of England College

Birmingham & Midland College

Charleston, J.

College of Preceptors

Educational Institute (Scott-

land)

Elit's College

Glasgow School of Pharmacy

Liverpool School of Pharmacy

London College of Pharmacy

North of England School

Northern College of Pharmacy

South of England College

Westminster College

EFFERVESCENT PREPS.

Allen & Hanburys, Ltd.

Ayrton, Saunders & Co., Ltd.

Bishop, Alfred, Ltd.

Blyton, Astley & Co.

Bristol-Myers Co.

Cuppal, Ltd.

Evans Sons Leecher & Webb, Ltd.

Guest, Thos., & Co.

Kerfoot, Thos., & Co.

Potter & Clarke, Ltd.

Reade Bros. & Co., Ltd.

Wright, Layman & Umney, Ltd.

Wyleys, Ltd.

EGG PRESERVATIVE

Home Yeast Co., Ltd.

Keeps, Ltd.

ELASTIC HOSIERY

Ayrton, Saunders & Co., Ltd.

Burge, Warren & Ridgley, Ltd.

Haywood, J. H., Ltd.

Maw, S., Son & Sons

Wood, Vincent

ELECTRICAL NOVELTIES

Evans Sons Leecher & Webb, Ltd.

Millard Bros., Ltd.

Simplex Conduits, Ltd.

Tokalon, Ltd.

Ward & Goldstone

Wright, Archibald J., Ltd.

EMERY AND CLOTH

Oakey, J., & Sons, Ltd.

EMETINE SALTS

Macfarlan, J. F., & Co.

Whiffen & Sons, Ltd.

EMULSIFIERS

Bennett, Sons & Shears, Ltd.

Wilkinson, S. W., & Co.

EMULSIONS, C.L.O., &c.

Ayrton, Saunders & Co., Ltd.

Baies Bros. & Stevenson, Ltd.

Blackie, Robert

Boulton Maoro, Ltd.

British Drug Houses, Ltd.

Parke, Davis & Co.

Scott & Bowne, Ltd

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Barnett & Foster
Bonke Roberts & Co., Ltd.
Bush, W. J., & Co., Ltd.
Hay, Wm., Ltd.
London Essences Co.
Sinalco Co., Ltd.
Stevenson & Howell, Ltd.

ETHERS

Baies Bros. & Stevenson, Ltd.
Duncan, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EXTRACT OF HERBS

Bowball & Mason

Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)

Allen, Stafford, & Sons, Ltd.
Barroughs Wellcome & Co.
Curling, Geo., Wyman & Co.
Evans Sons Lescher & Webb, Ltd.
Gathergood's Exor.
Kewlett, O. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son, Ltd.

FACTORY, & SITES

Great Western Railway

FEEDING BOTTLES

Schutze, F., & Co., Ltd.

FILLING MACHINES

Forgrove Machinery Co., Ltd.
Roberts' Pat. Filling Machine Co.

FILTERS

Berkfeld Filter Co., Ltd.

FLY-CATCHERS

Alabastine Co. (British), Ltd.
Booth & Co., Ltd.
Ford, Shephard & Co.
Kay Bros., Ltd.
Smith, Jno. H., & Co.
Tunbridge & Wright

FOODS, INVALID, &c.

Allen & Hanbury's, Ltd.
Bell (John), Hills & Lucas, Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Branovim Co.

British Casein Co. (1911), Ltd.

Fabrichild Bros. & Foster

Fletcher, Fletcher & Co., Ltd.

Harker, Stagg & Morgan, Ltd.

Morlet's Malted Milk Co.

Lofthouse & Saltmer, Ltd.

Natural Food Co., Ltd.

Nimol, Ltd.

Patermann Bros.

Plasmon, Ltd.

St. Ivel, Ltd.

Sister Laura Infant Food Co.

Southall Bros. & Barclay, Ltd.

Wander, A., Ltd.

Willows, Francis B. & T.

Woolley, Jas. Sons & Co., Ltd.

FOOT APPLIANCES

Sahel Mfg. Co., Ltd.

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Sanitas Co., Ltd.

GINGER WINE

Wares & Co.

GLASSWARE, CHEMICAL

Williams, E., & Co.

GLYCERIN

Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES

Anglo-American Pharm. Co.

Werk, B.

GREASE REMOVER

Perkin & Co. Ltd.

GRINDERS, DRUG, &c.

Allen, Stafford, & Sons, Ltd.

Goodall, Backhouse & Co.

Willows, Francis B. & T.

GRINDING MACHINERY

Hardy Pat. Pick Co., Ltd.

GRIPE WATER

Woodward, W., Ltd.

GUMS

Pink, F., & Co.

Kidston, W. M., & Co.

HAIR DYES

Harker, Stagg & Morgan, Ltd.

Knor Walker, J., & Co. Ltd.

HAND CARTS, TRUCKS, &c.

Crowe & Co.

HAT CLEANERS

Obriety, Thos., & Co.

Wilner's Chemical Co.

Senior, Alfred, & Co.

HAIR PREPARATIONS

Alexandre, L.
Blackie, Robert
Edward's "Harlene" Co.
Harrison, G. W.
Knoll & Co., Ltd.
Lindner, M.
Osborne, Garrett & Co.
Robare's Aureoline
Sangers
Steele & Marsh
Tokalon, Ltd.

HAT DYES

Jackson, T. S., & Sons
Whitaker & Co.

HERBS

Potter & Clarke, Ltd.

HOMOEOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.
Leath & Ross

HORSE REMEDIES

Harvey & Co. (Dublin), Ltd.

HOT-AIR DOUCHES

Ward & Goldstone

HOTELS

Kingley Hotel

Thackeray Hotel

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Bailey, W. H., & Son
Burge, Warren & Ridgley, Ltd.
Fulham Pottery & Chevin
Filter Co., Ltd.
Galen Manfg. Co., Ltd.
Schutze, F., & Co., Ltd.
Toogood, William, Ltd.
Wood, Vincent

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPONOTICS

Knoll & Co., Ltd.
Wiedemann, Broicher & Co., Ltd.

HYPOPHOSPHITES

May & Baker, Ltd.
Morse, T., & Son
Tyrer, T., & Co., Ltd.

ICHTHYOL

Ichthyol Gesellschaft

INK, DICHI OIC

Bewlay & Draper, Ltd.

INSECT POWDER

Danyas Virus, Ltd.
Keating, Thomas
Potter & Clarke, Ltd.

INSECTICIDES

Christy, T., & Co.
Cook, E., & Co., Ltd.

INSURANCE

London & Midland Insurance Co., Ltd.

JAPANESE SUNDRIES

Hardie, H. D., & Co.

JUJUBES

Blyton, Astley & Co.
Guest, Thos., & Co.
Potter & Clarke, Ltd.

LANOLINE

Barroughs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVERANDER OIL

Jakeon, John, & Co.

Ransom, W., & Son, Ltd.

LAVERANDER WATER

Bush, W. J., & Co., Ltd.

LEGITHIN

Chem. Works "Victoria"
Merck, E.

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, &c.

Mumford, G. S., & Sons

LINTS

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.

Taylor, W. G.

LIQUORICE JUICE

Apollo
Burgoyne, Burbridge & Co.
Evans Sons Lescher & Webb, Ltd.

Jackson, Ernest, & Co.

Mumford, G. S., & Sons

Solazzi

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British Drug Houses, Ltd., The
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.

May & Baker, Ltd.

LOOPAHS

Hall Forster & Co., Ltd.
Internl. Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

LOZENGES

Blyton, Astley & Co.
Cartwright, W. B., Ltd.
Denoual, Jules, & Co.
Guest, Thos., & Co.
Jackson, Ernest, & Co.
Meggeson & Co., Ltd.
Potter & Clarke, Ltd.
Raimes & Co.
Warriack Bros., Ltd.

MACHINERY, PHARMACAL

Allen & Hanbury's, Ltd.
Bennett, Sons & Shears, Ltd.
Forgrove Machinery Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Griffin, J. J., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Pindar, J. W., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

MAGNESIA AND PREPS.

Allen & Hanbury's, Ltd.
Ayrton, Saunders & Co., Ltd.
Cox, Arthur H., & Co., Ltd.
Henry, T., & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Tokalon, Ltd.
Washington Chemical Co., Ltd.
Wigglesworth & Co.

MALT EXTRACT & PREPS.

Allen & Hanbury's, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
British Drug Houses, Ltd., The
Calder, James, & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Curling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co., Ltd.
Paine & Co., Ltd.
Pascall, James, Ltd.
Patermann Bros.

MARKING INK

John Bond ("Crystal Palace")

MEASURES, GRADUATED

Bush, H. W., & Co., Ltd.

MEAT EXTRACTS

Armour & Co., Ltd.
Brand & Co., Ltd.
Tooth's Extract of Meat Co.

MEDICAL COILS

Ward & Goldstone

MERCURIALS

Alliance Drug and Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
Whiffen & Sons, Ltd.

METHYLATED SPIRIT

Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son Ltd.
Riddell & Smith
Thornley, Samuel, Ltd.

MILK SUGAR

Hollandsche Melkzuikerfabriek
Mineral Waters, Salts
Apollinaris Co., Ltd.
Ingram & Royle, Ltd.
Vichy-Celestins
Vittel

MIXERS AND SIFTERS

Gardner, Wm., & Sons (Gloauce
ter), Ltd.

MOTOR CARRIERS, VANS, &c.

Bentick Motor Supply, Ltd.
Tilling, Thomas, Ltd.

MUSTARD PLASTER

Blyton, Astley & Co.
Rneff, Julius

MUSTARD SEED OIL

Johnson, J. H. & S
Nail Polish Paper, &c.
Pharm. Ind. Ges. Offenbach

NAPHTHALINE

Burt, Boulton & Haywood, Ltd.

NICOTINE

Campbell, J. D.

NIGHT LIGHTS

Price's Patent Candle Co., Ltd.

OILS, ESSENTIAL

Auen, Stafford, & Sons, Ltd.
Alliance Drug & Chemical Co.
Bonke Roberts & Co., Ltd.
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
Jackson, John, & Co.
London Essence Co.
Lueders, George, & Co.
Poppelreuter, W.
Ransom, W., & Son, Ltd.
Schimmel & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmerman, Chas., & Co.

OILS, MINERAL, FATTY &c

Allen, Stafford, & Sons, Ltd.
Plantin Bros.
Price's Patent Candle Co.
Stern Sonneborn Oil Co., Ltd.

ointments

Blackie, Robert
Burgess, E.
Oldfield, Pattinson & Co.

OPTICAL GOODS

Botwright & Grey
Darton, F., & Co.
Nitsche & Gunther Opt. Co., Ltd.
Standard Optical Co.

OPTICAL TUITION

British Optical Institute, Ltd.
College of Optics
Spectacle Makers Company

ORANGE & QUININE WINE

Idris & Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

ORGANIC SOLVENTS

Hopkin & Williams, Ltd.

OTTO OF ROSE (SYNTH.)

Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, Thos., & Co.
Stevenson & Howell, Ltd.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd.

PACKED GOODS

Allen & Hanbury's, Ltd.
Baies Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Onrling, Geo., Wyman & Co.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Harker, O. R., Stagg & Morgan
Lofthouse & Saltmer, Ltd.
Lorimer-Marshall, Ltd.
May, Roberts & Co., Ltd.
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ltd.
Toogood, W., Ltd.

PALATINOLDS

Oppenheimer, Son & Co., Ltd.

PAPER HANDKERCHIEFS

Powell, J. T., & Co.

PARAFFINUM LIQUIDUM

Price's Patent Candle Co., Ltd.
Schliemann's Oil & Ceresine Co.
Stern Sonneborn Oil Co., Ltd.

PASTILLES

Allen & Hanbury's, Ltd.
Asche, O. Z., & Co.
Blyton, Astley & Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Guest, Thos., & Co.
Kerfoot, Thomas, & Co.
Warrick Bros., Ltd.

PATENT AGENTS

Barker, R. W.
Raworth, John E.

PELLETS

Blyton, Astley & Co.

PEPPERMINT OIL

Bush, W. J., & Co., Ltd.
Dodge & Olcott Co.
Jackson, John, & Co.
Ransom, W., & Son, Ltd.

PERBORATES

Prescott & Co.

PERFUME MATERIALS

Boehringer, C. F., & Soehne
Bonaventura, F., & Co.
Bush, W. J., & Co., Ltd.
Givaudan, L.
Kerfoot, T., & Co.
Lueders, George, & Co.
Naeff, M., & Co., Sucres.
Schimmel & Co.
Wright, Layman & Umney, Ltd.
Zimmerman, Chas., & Co.

PERFUMES

Allen & Hanburys, Ltd.
Baies Bros. & Stevenson, Ltd.
British Drug Houses, Ltd., The
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Erasme Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Fickus, Courtney & Co.
Lescot Perfumery Co.
McCracken, J. & R.
Pazery, Richard
Potter & Clarke, Ltd.
Price's Co., Ltd.
Priehard & Constance, Ltd.
Quelch, H. O., & Co.
Raynaud, Claude, & Cie
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Vinolia Co., Ltd.
Warwick Bros., Ltd.
West, T. & Son

PERLES

Tye, John, & Son

PESSARIES (SOLUBLE)

Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

PETROLEUM JELLY

Cheesebrough Manfg. Co.
Kidston, W. M., & Co.
Stern Sonneborn Oil Co., Ltd.

PHOSPHORUS AND PREPS.

May & Baker, Ltd.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne
Johnson & Sons (Mfg. Chts.), Ltd.

PHOTO GOODS

Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Butcher, W., & Sons, Ltd.
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.

PHOTO. POSTCARDS, ETC.

Rajar, Ltd.

PILL MAKERS

Bylton, Astley & Co.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Lloyd, H., & Co., Ltd.
McKesson & Robb's
Standard Tablet & Pill Co., Ltd.
Stohr, Dr. Franz, Ltd.
Wand Manufacturing Co.

PLASTERS

Allcock Manfg. Co.
Beiersdorf, F., & Co.
Berliner, Arthur
Bylton, Astley & Co.
Dalmas, A. de St., & Co.
Galen Manfg. Co., Ltd.
Seabury & Johnson

PLATE POWDER

Lees, A., & Co.

PLEATED PAPER

Darter, Wilkinson & Co.
Smith Bros. & Co.

POCKET LAMPS, ELECTRIC

Ward & Goldstone

POLISHES (VARIOUS)

Bradley & Bourdas
Oakley, J., & Sons, Ltd.

POSTAL BOXES

Robinson & Sons, Ltd.

POWDER PAPER

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Pharm. Ind. Ges. Offenbach
Priehard & Constance, Ltd.

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Ford, Shapland & Co.
Harrison, Alf., & Sons
Suttley & Silverlock, Ltd.
Townsend, J., & Sons
Waide, T., & Son
Wilkinson, James F.

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Bayer Co., Ltd.
Beecham, T.
Bow's Liniment, Ltd.
British Drug Houses, Ltd., The
Bresillon, M., & Co.
Wright, Layman & Umney, Ltd.
Coleman & Co., Ltd.
Compagnie Juvenile
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary
Cupal, Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Dearborn, Ltd.
De Roos, Johnson & Co.
Duncan, Flockhart & Co.
Eosolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Expurgo Manfg. Co.
Faulding, F. H., & Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferra & Co., Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hommel's (Dr.) Hæmatogen
Ichthyol Gesellschaft
International Laboratories
Key Bros., Ltd.
Kutnow, S., & Co., Ltd.
Kyho Proprietary, Ltd.
Little, D. J., Co.
London Proprietary Co.
Martindale, W.
May, Roberts & Co., Ltd.
Midland Drug Co.
Müller, Peter, Ltd.
Mumford, G. S., & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Payne, H. C.
Phillips, Chas. H., Chem. Co.
Primer, J.
Reade Bros. & Co., Ltd.
Resinol Chemical Co.
Rooke, Dr. Chas., Ltd.
St. Ivel, Ltd.
Sanalak, Ltd.
Sangers
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons, Ltd.
Standard Tablet & Pill Co., Ltd.
Stedman, J. H.
Thermogene Co., Ltd.
Thompson & Capper
Tokalon, Ltd.
Tozer, Jas. V.
Tunbridge & Wright
Warwick Bros., Ltd.
White, A. J., Ltd.
Wilcox, Joseau & Co.
Woodward, W., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, O., & Co.

PUFFS

Solport Bros.

PUMPS

Berkfeld Filter Co., Ltd.

QUININE AND SALTS

Alliance Drug & Chem. Co.
Boehringer, C. F., & Soehne
Buchler & Co.
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.

RADIUM AND SALTS

Buchler & Co.
Hopkin & Williams, Ltd.

RAZORS

Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons

RESINS AND RESINOIDS

Allen, S., & Sons, Ltd.
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Morton, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS

Wallach Bros., Limited
Zimmer & Co.

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Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Tompkins, J., Ltd.
Warne, W., & Co., Ltd.

RUBBER SPONGES

Wanklyn, H. A.

RUBBER STAMPS

Richford, C. D.

SACCHARIN

Saccharin Corporation, Ltd.

SANTONIN

Merck, E.
Smith, B. A., & Co.

SAPOININ

Field, O. W.

SCIENTIFIC APPARATUS

Griffin, J. J., & sons, Ltd.
Reynolds & Branson, Ltd.
Perken, Son & Co., Ltd.
Pillischer, J.

SEA SALT

Tidman & Son, Ltd.

SEED-DRESSING

Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SEEDS

Potter & Clarke, Ltd.

GERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Joseau & Co.

SHAMPOO POWDERS

Standard Tablet & Pill Co., Ltd.

SHARES

McAdam & Tackniss

SHEEP DIPS

Burt, Boulton & Haywood, Ltd.
Chemical Union, Ltd.
Tomlinson & Hayward, Ltd.

SHOP FITTINGS

Ayrton-Graham, Ltd.
Cook, George
Evans Sons Lescher & Webb, Ltd.
Grant, D.
Harris & Sheldon, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons
Rudduck & Co.
Sangers

SHOULDER STRAPS

Wood, Vincent

SHOWCARDS

Bell Advertising Co.

SILVERWARE TOILET GOODS

Scott Adolph

SOAP-MAKING PLANT

Forshaw, E., & Son, Ltd.

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Allen & Hanburys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. O., & Co.
Cheesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Erasme Co., Ltd.
Euvely, Ltd.

Evans Sons Lescher & Webb, Ltd.

Field, J. O. & J., Ltd.

Fulford, C. E., Ltd.

Harrison, G. W.

Hovenden, R., & Sons, Ltd.

Lescot Perfumery Co.

McClinton's, Ltd.

Pears, A. & F., Ltd.

Price's Patent Candle Co., Ltd.

Providol Company

Resinol Chemical Co.

Wright Layman & Umney, Ltd.

SODA FOUNTAINS

Flugel & Co.

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.

Howards & Sons, Ltd.

Mumford, G. S., & Sons

SOOTHERS

Newbery, F., & Sons, Ltd.

Schutze, F., & Co., Ltd.

SPECTACLES

Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.

SPEARMACETI

Price's Patent Candle Co., Ltd.

SPICES

Goodall, Backhouse & Co.

SPIRIT OF WINE

Burroughs, J., Ltd.
Calder, James, & Co., Ltd.
Preston's Liverpool Distillery
Co., Ltd.

SPONGES

Internal Sponge Importers, Ltd.

SPRAYS

Benton & Stone, Ltd.
Burge, Warren & Ridgley, Ltd.
Christy, Thos., & Co.
Hovenden, R., & Sons, Ltd.
Maw, S., Son & Sons
Parke, Davis & Co.
Sangers
Toogood, Wm., Ltd.
Wallach Bros., Ltd.

SPRINKLER CORKS

Bette & Co., Ltd.

SPRUCE BEER

Hobson, Joseph, & Son

STARCH

Mumford, G. S., & Sons

STILLS

Bennett, Sons & Shears, Ltd.
Forshaw, E., & Son, Ltd.
Stokes, F. J., Machine Co.

STOPPERS

Lang, Jules, & Son
Stipendum Stopper Co.

SURGICAL APPLIANCES AND DRESSINGS

Allen & Hanburys, Ltd.
Bailey, W. H., & Son, Ltd.
Berliner, Arthur
Burgoyne, Burdidge & Co.
Burroughs Wellcome & Co.
Carnegie Bros.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
Haywood, J. H., Ltd.
Liverpool Lint Co.
Macfarlan, J. F., & Co.
Martindale, W.
Mason Bros. & Chapman
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Quelch, H. O., & Co.
Reynolds & Branson, Ltd.
Robinson & Sons, Ltd.
Seahury & Johnson
Southall Bros. & Barclay, Ltd.
Taylor, W. G.
Van Horn & Sawtell
Vernon & Co., Ltd.
Warne, W., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

SYPHON FILLER

Flugel & Co.

SYPHONS

Barnett & Foster
Camwell, Ltd.
Idrie & Co., Ltd.
Pure Aeration Supply, Ltd.
Sharman's Pat. Syphon Co., Ltd.
Fellows' Med. Manfg. Co.
Martindale, W.
Sinaleo Co., Ltd.

TABLET MACHINERY

Allen & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Thompson & Capper, Ltd.
Wilkinson, S. W., & Co.

"TABLOID" PRODUCTS

Burroughs Wellcome & Co.

TAP JARS

Fulham Pottery & Cheavin
Filter Co., Ltd.

TARTARIC ACID

Boehringer, C. F., & Soehne
British Drug Houses, Ltd., The

TEATS

Ingram, J. G., & Son

TABLETS, COMPRESSED

Allen & Hanburys, Ltd.
Bayer Co., Ltd.
Bishop, Alfred, Ltd.
Blyton, Astley & Co.
British Drug Houses, Ltd., The
Brook, Parker & Co., Ltd.
Burgoyne, Burdighes & Co.
Cartwright, W. B., Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans Sons Leecher & Webb, Ltd
Guest, Thos., & Co.
Hopkin & Williams, Ltd.
Howards & Sons, Ltd.
Jackson, Ernest, & Co.
Johnson & Sons (Mfr. Chas).
Lloyd, H., & Co., Ltd.
Martindale, W.
Meggeson & Co., Ltd.
Parke, Davis & Co.
Shirley Bros., Ltd.
Standard Tablet & Pill Co., Ltd.
Stohr, Dr. Frans, Ltd.
Thompson & Capper, Ltd.
Toser, Jas. V.
Wand Manfg. Co.
Wigglesworth & Co.

TIN BOX MAKERS

Goodall, Backhouse & Co.
Liverpool Tin Canister Co., Ltd.
Shirley Bros., Ltd.

TINCTURES IN BOND

Macfarlan, J. F., & Co.
Ransom, W., & Son, Ltd.

TOBACCO

Sangers
Singleton & Cole, Ltd.

TOILET ARTICLES

Allen & Hanburys, Ltd.
Ansors Perfumery Co.
Armour & Co., Ltd.
Ayrton, Saunders & Co., Ltd.
Beetham, M., & Son
Blackie, Robert
Bronnley, H., & Co., Ltd.
Burroughs Wellcome & Co.
Cheesbrough Mfg. Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.

Cox, Arthur H. & Co., Ltd.
"Cyclax" Company
Daisy, Ltd.
Edwards' Harlene Co.
Erasmic Co., Ltd.
Eueryl, Ltd.
Fulford, O. E., Ltd.
Harker, Stagg & Morgan, Ltd.
Hovenden, R., & Sons, Ltd.
Kopp & Joseph
Lloyd, Aimée & Co.
Lloyd, A. B. (Hovenden)
Lorimer-Marshall, Ltd.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Möller, Peter, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oshorne, Garrett & Co.
Papier Poudre, Ltd.
Parks, Davis & Co.
Pasery, Richard
Richard & Constance, Ltd.
Providol Gesellschaft
Quelch, H. O., & Co.
Roberts & Co.
Sangers
Shirley Bros., Ltd.
Softo Manfg. Co.
Solport Bros.
Southall Bros. & Barelay, Ltd.
Standard Tablet & Pill Co., Ltd.
Stedman, J. H.
Tokalon, Ltd.
Woolley J., Sons & Co., Ltd.

TOILET PAPER

Ayrton, Saunders & Co., Ltd.
Burgoyne, Burdighes & Co.
Diamond Mills Paper Co.
Ford Shapland & Co.
Townsend, J., & Sons

TOURS

Free Church Touring Guild

TRADE-MARKS AGENTS

Barker, B. W.
Ford, Shapland & Co.
Raworth John E

TUBE-CLOSING MACHINE

Griffin, J. J., & Sons, Ltd.

TURNED WOOD BOXES

Rogers & Co.

TRUSSES

Bailey, W. H. & Son, Ltd.
Davis, John Morgan, & Sons
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Sangers
Schutze, F., & Co., Ltd.
Wood, Vincent
Woolley, J., Sons & Co., Ltd.

VACUUM FLASKS

Millard Bros., Ltd.
Netz, Paul
Read & Campbell, Ltd.
Thermos, Ltd.

VACUUM PANS

Bennett, Sons & Shears, Ltd.
Stokes, F. J., Machine Co.

VALUERS

Baker, P. C.
Berdoo & Fish
Brett & Co.
Evans, Gadd & Co., Ltd.
Orridge & Co.
Tomlinson T., & Son

VAPORIZERS

Hall, Forester & Co., Ltd.

VASELINE

Cheesbrough Mfg. Co.

VERMIN-KILLERS

Battle, Son & Maltby
Christy, T., & Co.
Cupai, Ltd.
Denyes Virus, Ltd.
Evans Sons Leecher & Webb, Ltd
Farmer, F., & Co.
Harley, Thomas
Harrison, G. W.
London Hygienic Chemical Co.
Milner's Chemical Co.
Steiner, E., & Co.

VETERINARY REMEDIES

Cheesbrough Mfg. Co.
Christy, Thos., & Co.
Day & Sons (Crews), Ltd.
Edwards, W., & Son
Harvey & Co. (Duhlin)
Senior, Alf., & Co.
Tomlinson & Hayward, Ltd
Wyleys, Ltd.
Zimmermann, C., & Co.

VETERINARY INSTRUMENTS

Mason Bros. & Chapman
Maw, S., Son & Sons

VINEGAR

Grimble & Co.

WATER GLASS

Barelay & Sons, Ltd
Tomlinson & Hayward, Ltd.

WATER STILL

Brown & Sons
Stokes, F. J., Machine Co.

WATERS, CONCENTRATED

Robinson, B., & Co., Ltd.

WAXES

Price's Pat. Candle Co., Ltd.

WEED-KILLERS

Harrison, G. W.
Reade Bros. & Co., Ltd.
Tomlinson & Hayward, Ltd

WINDOW FITTINGS

Ayrton-Graham, Ltd.

WINDOW TICKETS

Merten, F., & Co.

WINES

Burrough, J., Ltd.
Smith, Stephen, & Co., Ltd.

WINES, MEDICATED

Burrough, J., Ltd.
Burroughs Wellcome & Co.
Coleman & Co., Ltd.
Fletcher, Fletcher & Co.
Idris & Co., Ltd.
Robinson, B., & Co., Ltd.
Smith, Stephen, & Co., Ltd.

WINES (NON-ALCOHOLIC)

Welch Grape Juice Co., Ltd.

WRIST STRAPS

Solport Bros.

ZINC OXIDE

Hubbuck, T., & Son, Ltd.
Stevenson, H. E., & Co.

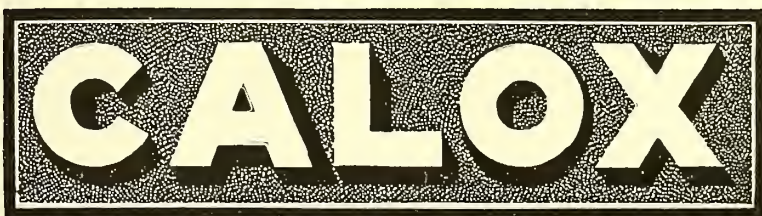
ZINC SULPHIDE SCREENS

Buchler & Co.

The number of dentifrices is myriad, their names are legion.

But—

in principle and in efficiency there is but one,

**THE OXYGEN TOOTH POWDER.**

Its principle is the evolution of oxygen.

Its efficiency as a cleanser of the teeth is due to the oxygen which it generates when used.

Not only antiseptic, but deodorant, two desirable properties of a tooth powder, Its oxidizing and deodorizing power was obvious in our experiments.—THE LANCET, London, Eng.

Possesses not only strong antiseptic, but deodorizing and oxidizing properties, as the result of which the teeth, after a few days' use of CALOX acquire a pearly whiteness.—THE CHEMIST AND DRUGGIST, London.

CALOX is entirely different from other dentifrices. Its introduction marks a decided advance in the scientific development of a dentifrice, a fact which the dental profession the world over has been quick to recognise. Chemists should interest themselves in Calox because only a chemist can explain the peculiar virtues and value of an oxygen-producing dentifrice.

Price to the trade, 9/6 per dozen on the P.A.T.A plan.

McKESSON & ROBBINS, New York, U.S.A. Manufacturers.

BRITISH G. B. KENT & SONS, Ltd., 75 Farringdon Road, London, E.C.

Getting the Customers in.

EVERY Chemist who opens a new shop has to face this problem—so has the Chemist who is endeavouring to increase his present business. Success in either case depends largely on getting the customers in.

With the exception of a personal talk, which is frequently inconvenient and very often impossible, there is nothing so effective in creating new custom as a well-written circular.

Any Chemist in the United Kingdom can have a hundred circulars that will bring the customers in, if he stocks

Bisurated Magnesia.

Just a four page circular, but strongly and forcibly written, containing all the necessary information about the various forms of Bisurated Magnesia. It also includes some valuable advice on diet that will be appreciated by everyone suffering from Indigestion in any form and it is a circular that will be retained for future reference.

Our extensive advertising in connection with Bisurated Magnesia creates the demand—and a very large one, too—so that there are plenty of regular buyers. All you have to do is to tell them you stock this preparation.

Let the people in your district know you want them to buy Bisurated Magnesia from you, by distributing a few of these circulars; you can stamp your name on them, or we will do it for you on receipt of request and particulars.

The Circulars, which are equally suitable for counter or hand distribution, will be forwarded at once if you send a postcard to-day.

Tokalon Limited,
Tokalon House
212/214 Great Portland Street,
LONDON, W.

S. MAW, SON & SONS

7 TO 12, ALDERSGATE ST.

LONDON, E.C.

Maw's



Page.

No. 127.

MARCH 21, 1914.

Easter

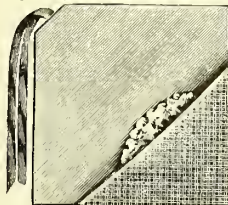
SOME PROFITABLE LINES

SPONGE BAGS AND WRAPS

Check Cambric Waterproof Sponge Bags. Super quality, the best made. From 7/3 to 18/- per dozen.

The "Jap Silk," assorted pale tints: ivory, pink and blue. From 9/- to 21/6 per doz.

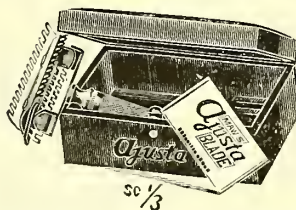
Check Cambric Waterproof Wraps. Super quality, from 13/- to 27/- per doz.



TOILET HOLDALLS

Check. 10/C. 10½ × 7 in., per doz. 8/-; 13/C. 16 × 9½ in., per doz. 18/-; 16/C. 18 × 12 in., per doz. 21/-; 21/C. 24 × 12 in., per doz. 36/-

18/C. "The Prudence." Double Proofed Grey. 18 × 12 in., per doz. 27/-; 20/C. Twill, 17 × 9 in., per doz. 30/- The above are illustrated on page 469 of our Catalogue.



SAFETY RAZORS

B4258/B. The "Ajasta," Maw's Registered. British made. As illustrated, in case, per doz. 21/-

B2752/B. "Invincible" No. 1, in roll-up pouch, with tin of Maw's Soap Powder and Shaving Brush. Each 2/6

B4262/B. "Invincible" No. 6. Gilt in gilt case, 6 blades. Each 1/-

MOTOR AND CYCLE GOGGLES

A111/U. Cyclists', solid nickel, smoke, blue or white globular lenses, each in case, per doz. 12/-

A125/U. Motorists', long D-shape glasses, edged silk velvet, with spring bridge. Per doz. 26/-

Large selection always in stock.

PRISM BINOCULARS

A93/U. Power × 8. Optically perfect. Wonderful power and definition. Brown leather case. Each 50/-

A98/U. Power × 12 (Ross). Each 119 6

VACUUM FLASKS

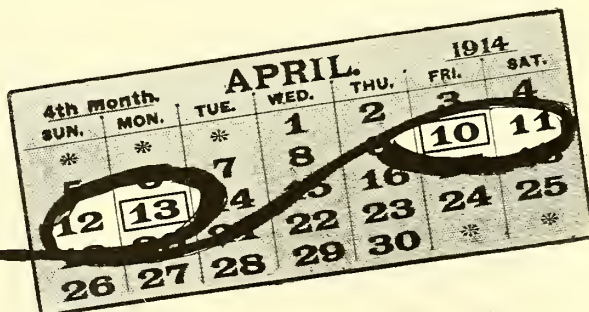
A most popular line with travellers. We have just issued a comprehensive list of patterns, ranging from very cheap—competitive prices—to expensive presentation articles. "Junior Effective" No. 1, ½-pint 18/- per doz.; 1 pint 23/- per doz.; 2 pint 50/- per doz.; No. 3 (super quality), 1 pint 36/- per dozen. Special quotations for larger quantities. Write for List.



TOILET BRUSHWARE

For full illustrated selection see pp. 99—164 in our Catalogue.

"MAW"
QUALITY—
ALWAYS"



HORLICK'S MALTED MILK Lunch Tablets

MALTED BARLEY, WHEAT & MILK in TABLET Form.

In Glass Pocket Flasks.

Costs the Trade 9/- for Single Dozens.

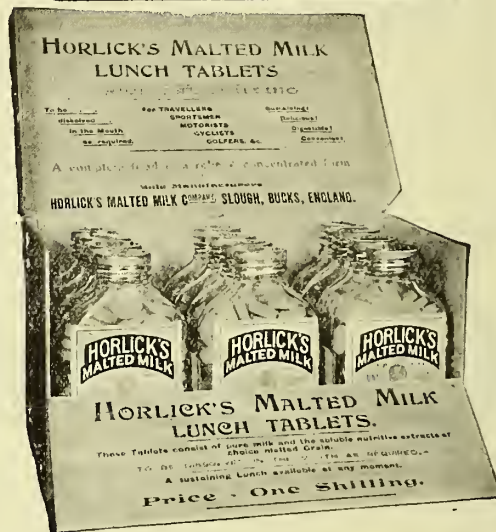
ESPECIALLY CONVENIENT FOR TRAVELLERS
:: SPORTSMEN, ATHLETES AND CYCLISTS. ::

Write for particulars to—

HORLICK'S MALTED MILK CO.

• SLOUGH, BUCKS., England.

**A NEW SIZE
TO SELL FOR
ONE SHILLING.**



One Dozen Flasks for Counter Display.

Lofthouse & Saltmer, Ltd.

Wholesale and Export Drug Merchants,
— Manufacturing Chemists —

HULL

Invite the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

	Protected Retail Price.	Dozen Net.
* LOSALL'S SALT (well advertised), tins	6d.	3/6
* " " " " " " " " " "	1/-	7/-
* " " " " " " " " " " bottles in cartons	1/6	10/6

* Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.

LOSALL'S COMPOUND SULPHUR SOAP.

A valuable emollient medicated skin soap, especially suitable for use in Eczema } 1/- 8/-

Chemists requiring effective advertising matter for Losall's Salt, &c., will, on application direct to Lofthouse & Saltmer, receive a liberal supply of Dummies, Showcards, Window Slips, Price Tickets, &c., Carriage Paid, whether or no they have an account open with the Firm.

**SPECIAL TERMS ARE OFFERED FOR
WHOLE OR PART WINDOW DISPLAYS.**

50% Profit

SPECIAL OFFER.—On receipt of P.O. value 2/-, we will send you $\frac{1}{4}$ gross carriage paid. **SEND NOW.**
[49, A.J.S.]

Verox Beef-tea Cubes cost 8/- per gross, carriage paid. The minimum selling price is 1s. each = 12/- per gross. Your profit is 4/- = 50% on outlay. Each cube is wrapped in grease-proof paper and a special carton. They are put up in tin boxes containing six, to sell at 6d., or singly. The public like them because they are real beef—not salt cubes.

TOOTH'S (Est. 1865)
23 Leman St., London, E.

PURE EGG
LECITHIN

LECITHIN EX OVO LECITHIN-ALBUMEN POWDER

For the manufacture of Tablets, Chemical Foods, Nerve Tonics, etc.

LECITHIN FOOD PREPARATIONS

Prepared with 2½%, 5%, or 10% of PURE Lecithin in bulk, or in boxes or cartons.

LECITHIN TABLETS, DRAGEES, PILLS or CHOCOLATE.

Prepared by Chemical Works "VICTORIA," Berlin, S.W.

Sole Agent for U.K.:

HUGO LORENZ, 7 & 8 Idol Lane, London, E.C.
Write for Pamphlets. Tel. Nos.: Avenue 5945; Central 12641.

20,000 Doctors are recommending **PLASMON** **ALL NOURISHMENT COCOA**

Because It yields a delicious beverage
"ten times more nutritious than
ordinary Cocoa."

Vide "Lancet" Analysis.

5d., 9d., 1/4 & 2/6 per tin.

LARGE PROFITS FOR YOU.

LET YOUR CUSTOMERS KNOW YOU STOCK.

PLASMON, LTD.

66a Farringdon Street, LONDON, E.C.

Vacuum Flasks for the Summer Trade

¶ It will pay you to make a special line of these during the coming 'Outdoor Life' Season.



The new Painted Metal "Roc" Flask to retail at 2/11.

¶ Think of the almost endless occasions on which a Vacuum Flask is a necessity—at picnics, up the river, on the yacht, on walking tours, on the beach, when motoring or cycling, &c.

¶ It will pay you still better to stock only the best flasks—that is to say

"ROC"

Supertested

VACUUM FLASKS.

¶ Why best?—because every Flask from the cheapest (here shown) to the most expensive (again "cheapest" for its excellencies) contains identically the same supertested vacuum bottle and the well-known "Roc" shock-absorbing features which minimise breakage and yet enable accidentally broken bottles to be replaced in a moment.

Price Lists, Leaflets, Showcards, &c., from

READ & CAMPBELL, LTD.,
Craig's Court, LONDON, S.W.

Genuine Thermos Flasks

NEW PATTERNS FOR 1914.

Immense Improvements!



PRICES TO SUIT
EVERYBODY.

Retail Price

from **2/6** each.

LIBERAL TRADE
DISCOUNT.

WRITE FOR FEBRUARY
1914 PRICE LIST.

Sole Manufacturers and Distributors:—

Thermos Limited, 8 Long Lane,
Aldersgate Street, London, E.C.

WE INVITE YOU

to drop us a line the
very next time you
require any

Printed Matter

We specialize in Chemists' Printing.
Labels, Cartons, Circulars, Pamphlets,
Illustrated Handbills—*Everything* in
connection with Chemists' Trade. ::

Write us. Samples sent Free.

Full set of Samples sent to Colonies for 10/6,
which amount we credit on receipt of a £5 order.

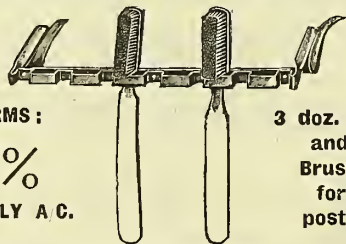


THOMAS WAIDE & SONS

Chemists' Printers,

**DARLINGTON STREET,
KIRKSTALL ROAD,
LEEDS.**

A FREE GIFT!



TERMS:

5%

MONTHLY A.C.

3 doz. Brushes
and this
Brush Clip
for 8/6,
post free.

Clips on Glass Shelf.

To make our **9841**

TOOTH BRUSHES

more widely known, we offer one of these
Nickel-plated Tooth Brush Display Clips
free to all customers ordering 3 dozen of
above Tooth Brushes at 2/9 dozen. The
brushes are waxed back, well assorted
patterns and textures, and readily sell
from 4½d. to 6d. each.

Chemists not wishing to order direct, should
order these Brushes from their regular Whole-
sale House, or remit 8s. net to

FRANCIS NEWBERRY & SONS, LTD.
Druggists' Sundriesmen,
27 & 28 CHARTERHOUSE SQUARE, LONDON, E.C.

Do you
like my
Hat?



NO
G
L
O
S
S

Made new for 6d.
with
'LUTON'
STRAW HAT DYE

WHITAKER & CO, Colour Works, KENDAL, ENGLAND

NO
P
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I
S
H

In bottles, 6d. each, in separate neat cartons, with suitable brush.
These Dyes are a distinct invention, dyeing the straw without an objection-
able varnished appearance, and producing the effect of new goods.

On the P.A.T.A.

Write for terms, patterns, also leaflet of testimonials:

WHITAKER & CO. COLOUR WORKS,
KENDAL, ENG.

London Depot: 60-62 CLERKENWELL ROAD, E.C.

Special Non-Inflammable Series for Export. EST. 1878.

Telegraphic Address: "Dullette Kendal."

Telephone: No. 214.

Ampoule Files

THE GREATEST PRODUCTION
IN THE WORLD.
THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—
SIM LTD., Morges, Switzerland.

'SEMREH'

THE LAST WORD

in Bottle Cappings. Air-tight, spirit-
proof, easy to put on, self-fitting: the
bottle's contents hermetically sealed.

Use 'SEMREH' HALF-CAPS for PERFUMERY

Full particulars on request.

The VISCOSE DEVELOPMENT CO.,

Ltd.,

Fembroke Road,
BROMLEY, KENT.



"ERASMIC" Window Display Competition.

MARCH 2 to JUNE 30, 1914.

Cash Prizes	1st Prize	.	.	.	.	£25	0	0
	2nd "	.	.	.	.	10	0	0
	3rd "	.	.	.	.	5	0	0
	10 Prizes of £1 each	.				10	0	0
	25 " 10/- "	.				12	10	0
						£62	10	0

THE above Competition has been inaugurated to run in conjunction with our series of "ERASMIC GIRL" Advertisements (full pages) now being issued to the leading Daily and Weekly Journals.

**SPECIAL SHOWCARDS, WINDOW BILLS &
PRICE TICKETS supplied with each Order.**

PRICE LIST ON APPLICATION.

FULL PARTICULARS OF SPECIAL OFFER, apply :—

ERASMIC

Perfumers

WARRINGTON

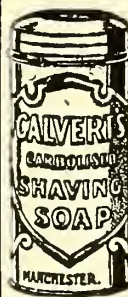
March 2, 1914.

Results published in "Chemist & Druggist," July 25, 1914.



**WILLIAM LASSON'S
Hair Elixir**
has a 30 years' reputation as an
Unique Hair Producer.
All wholesale houses supply it.
Chemists & Druggists
should apply for
COLOURED ART PRINT,
a great help in pushing its sale.
Post free. Write to-day to
Sole Consignee :
M. LINDNER,
FARRINGTON AVENUE, LONDON, E.C.

A New and Profitable Line.



CALVERT'S
CARBOLISED
Shaving Soap

Gives a lather most effective for its purpose—to secure a comfortable and hygienic shave. Readily rinsed from a safety razor.

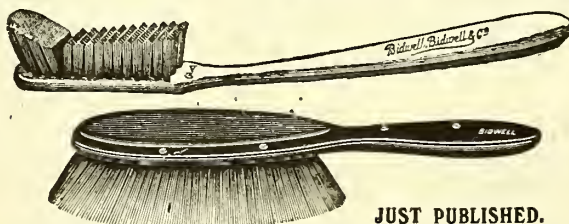
Retail at face value 10d. a stick.

F. C. CALVERT & CO., Manchester, Eng.

Manufacturers of Calvert's Carbolic Tooth Powder, Soaps, Disinfectants, etc.

Established 1839.

BIDWELLS' TOILET BRUSHES



JUST PUBLISHED.

Send for **NEW CATALOGUE.** It will interest you!



GOLD MEDAL
awarded
International Exhibition

Works—

**AXMINSTER,
DEVON.**



LONDON
Showrooms
Now Open:

BUSH LANE HOUSE,
CANNON STREET, E.C.

"DAMSCHINSKY'S" American Liquid Hair Dye

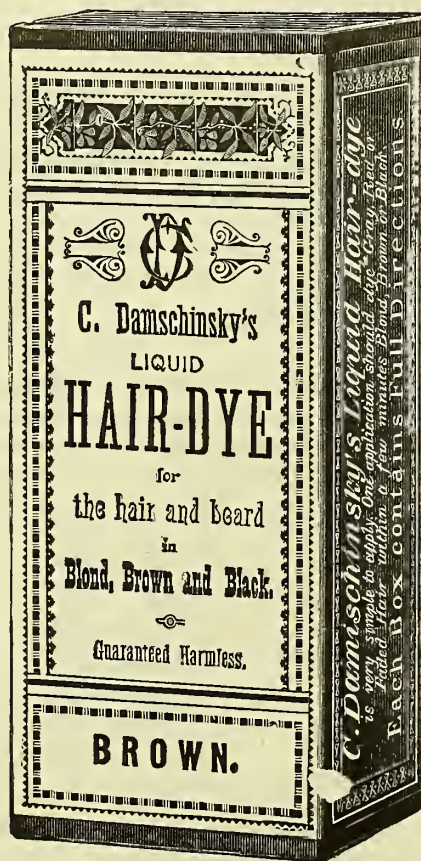
ONE PREPARATION.

FOR THE HAIR & BEARD (in Three Shades),
BLONDE, BROWN, & BLACK.

It contains no injurious substance. Dyes the Hair, whether grey or red, to any colour—from the finest blonde to the deepest black. It is efficacious and reliable. The oftener the colour is used, the darker becomes the shade of hair—so that the original colour of hair may be retained. It is a Dye, not a bleach. Will not give dark hair a light shade.



For orders of not less than 6 dozen, we give 1,000 Counter Bills with customer's own name and address as agent.



For quantities of not less than 2 gross, we print customer's own name and address on labels as agent.



PRICES:

1/3 Size:

9/- per Doz.

2/- Size:

12/6 per Doz.

CERTIFICATE.

This is to certify that I have examined C. DAMSCHINSKY'S LIQUID HAIR DYE, and find it to be free from all substances which might have an injurious effect, provided that the directions be adhered to. Especially is this preparation free from salts of lead and silver.

Dr. M. Hasenclever,

Wall Street, New York.

Analytical Chemist.

SOLE AGENTS FOR GREAT BRITAIN: **OSBORNE, GARRETT & CO., LONDON, W.**

Two New Proprietaries

SILMERINE	Hair Curling Fluid	Per Doz.	P.A.T.A.
		22/6	2/6
TEKKO PASTE.	Camphor Cream	22/6	2/6

Order from your Wholesaler, under our usual guarantee to take back any unsaleable stock and refund cash.

DEARBORN, Limited,
32 & 34 THEOBALD'S ROAD, W.C.

See also page 2.

By Appointment to
H.M. King George V.



**Buenos Aires, 1911,
GRAND PRIX.**

**Turin, 1911,
GRAND PRIX.**

HIGHEST AWARDS.

**Johann Maria Farina's
Jülichs Platz No. 4**

**GENUINE
EAU DE COLOGNE**

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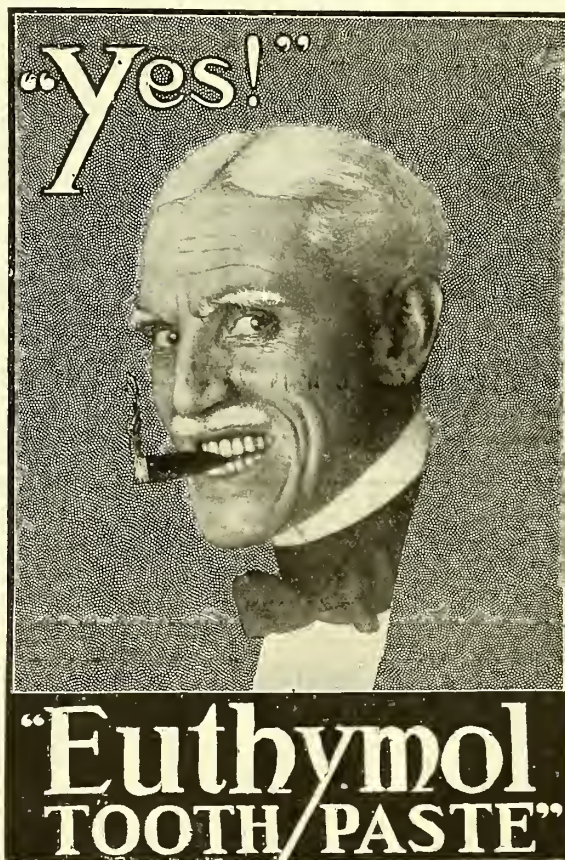
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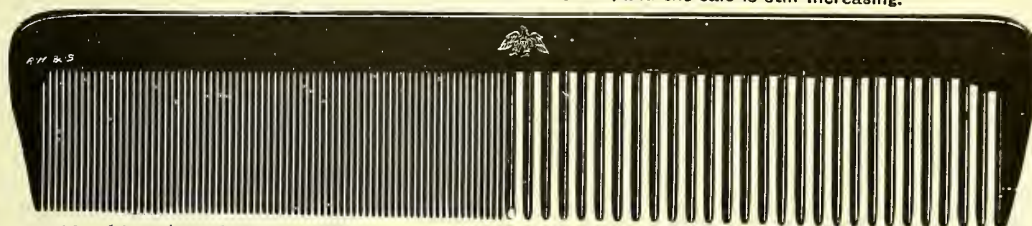
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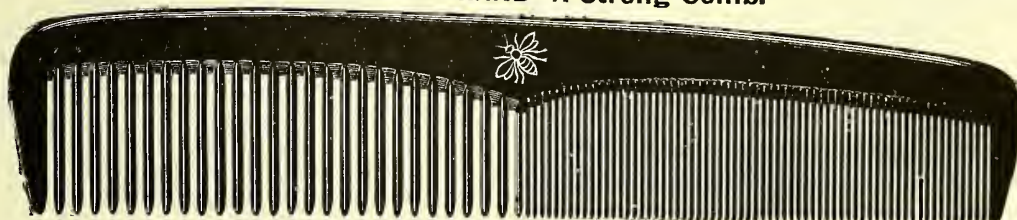
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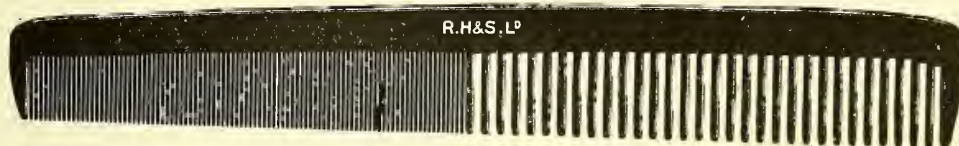
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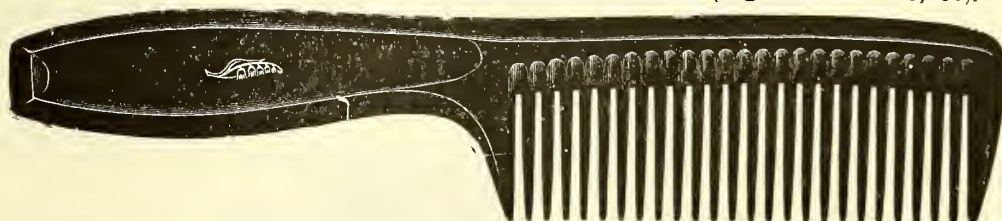
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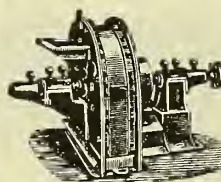
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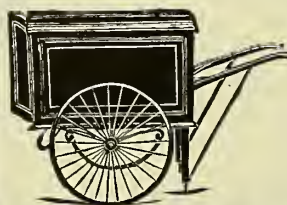
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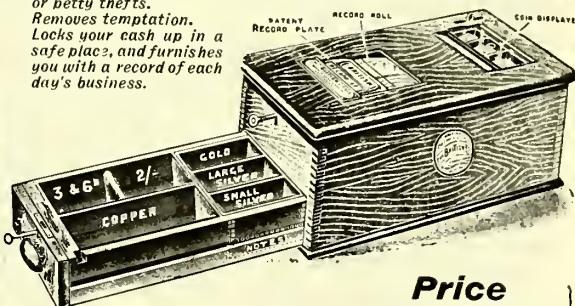
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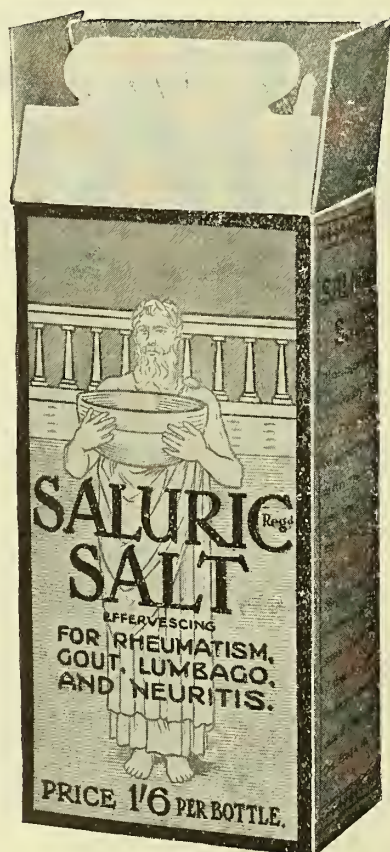
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 - „ Lanoline Anhydros (*Adeps Lanæ*), in 1lb. tins 3/7 „ „
 - Adeps Lanæ Hydros., B.J.D. 10d. „ „
 - Adeps Lanæ Anhydros. B.J.D. 1/1 „ „
- Note.—The letters B.J.D. should be specified if these qualities are required.

„ Lanoline, Veterinary, 1lb. tins 1/1

'DARTRING'



(TRADE MARK)

'DARTRING' Brand—

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- „ „ „ „ Anhydros, 1lb. tins 3/0
- „ „ „ „ Toilet, in collapsible tubes, at 5/0 and 10/0 per dozen.
- „ „ „ „ Specimen boxes, 28/0 per gross
- „ „ „ „ Cold Cream, in 2oz. pots, 15/0 per dozen
- „ „ „ „ Pomade, in 2oz. pots, 15/0 „ „
- „ „ „ „ Toilet Powder, in metal dredgers 5/0 „ „
- „ „ „ „ Toilet Soap, in boxes of 3 tablets 5/0 Per
- „ „ „ „ „ „ „ „ „ 6/6 doz.
- „ „ „ „ „ „ „ „ „ 6/6 tabs.
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OUR FELLOW SUBJECTS

in the United Kingdom and throughout the British Colonies and Dependencies number

more than one quarter of the estimated number of the entire human race.

The great bulk of this vast population is in the Colonies and Dependencies and in foreign countries. They demand goods of British origin, or articles sanctioned by British use. Besides catering for over four hundred million Britishers, manufacturers of chemists' merchandise have likewise the markets of foreign countries to compete in. They will find an exceptionally valuable helper in the

COLONIAL AND FOREIGN ISSUE

of

THE CHEMIST AND DRUGGIST,

which is to be published on April 25. The Easter holidays intervene, so the Publisher would like all instructions for advertisements in that Issue to be sent on as soon as possible.

SUMMARY.

Subscribers are advised to read this column first.

Articles and Communications.

A B.P.C. research list addendum is printed on p. 34.

The willow is this week's subject in our Minor Botany series (p. 35).

Hints on the nursing of animals are communicated by “M.R.C.V.S.” (p. 51).

The discussion on profit and expenses is being resumed with vigour by correspondents (p. 66).

About a score of remedies that are new since the *C. & D. Diary* was published are described on p. 35.

Types of panel chemists form a new series of Insurance dispensing cartoons. The Aldermanic Chemist is the first one (p. 55).

Should not registered chemists refuse to sell diachylon to women? Newcastle-upon-Tyne chemists have answered in the affirmative (p. 50).

“Contract,” Mr. Owen's afterthoughts, grey powder, Germany's chemical industry, emetine, and the medical lore of the Druids are “Xrayser's” subjects this week (p. 47).

A Research Committee of the Fabian Society has reported on the National Insurance Act. We quote what is said about the supply of drugs and appliances (pp. 55-57), and comment upon the good and bad points of the report as far as Medical Benefit is concerned (pp. 48-49).

News of the Week.

How many of the questions on p. 46 can you answer?

Students of pharmacy should write at once for the next exercise in qualitative analysis (p. 34).

A large number of Irish drug contracts are reported on p. 37, and other home contracts on p. 46.

A solution of Droitwich crystals is not a Droitwich bath. This is the result of an action in the High Court (p. 39).

Interesting statements regarding the effect of the Insurance Act on wholesale trading are contained in our reports of companies (p. 40).

Parliament is curious about the sale of cocaine and opium alkaloids; see pp. 42-43. A White Paper regarding The Hague conference on the subject is discussed on p. 50.

Mr. White (Pres. P.S.G.B.) was entertained to dinner by the Liverpool Chemists' Association on Wednesday evening. This event and others of the kind are reported on pp. 44 and 45.

The Winter Session moves steadily on, with a tendency to consider other things than Insurance dispensing, and to elect new officers, thus heralding the end of the Session (pp. 53-54).

In connection with the Pharmaceutical Society's Parliamentary Fund, Hull chemists suggest that a pharmacist Unionist candidate, as well as a Liberal one, should be subsidised (p. 51).

Deaths in England and Wales which are not certified by a registered medical practitioner must now be reported to the Coroner of the locality, so that herbalists' certificates are no longer accepted (p. 36).

The reorganisation scheme for Scotland provides for a Council elected on a territorial basis, which will appoint a Pharmaceutical Standing Committee on Insurance. It is described on p. 57, and is followed by fully two pages of reports from local centres.

Parliamentary reports are voluminous this week. Inquiry regarding panel chemists' accounts continues, but no new ground is struck. Mr. Glyn-Jones has introduced another Bill dealing with assistants to chemists and druggists, it having been realised that the first Bill might not cover assistants to companies and firms in Scotland (pp. 42-43).

Trade and Market Matters.

The linseed-oil market is in rather a curious position, at present, partly owing to an estimated shortness in the Indian crop of seed. The situation is discussed on p. 49.

Citric acid, citrates, fenugreek-seed, and opium are dearer; Cartagena ipecacuanha and pilocarpine are firmer. English castor oil, copper sulphate, acetic acid, ammonia sulphate, and menthol are among the cheaper products (p. 60).

B

CORNER FOR STUDENTS.

Conducted by Leonard Dobbin, Ph.D.

All communications for this section should be addressed thus: "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Qualitative Analysis.

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture will comprise acids and inorganic bases occurring in the British Pharmacopœia, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a stamped and addressed envelope, not a stamp merely) will be received up to Tuesday, March 24, when the samples will be posted to the applicants and those who have already applied for the tournament series of "Salts."

Students' reports will be received up to Saturday, April 4. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the final exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact must be attested on their reports.

British Pharmaceutical Conference.

THE following list of subjects is supplementary to the Research List published in the "Year-book of Pharmacy," 1913, pp. 390-392. The Hon. Secretaries wish to emphasise the fact that a special fund exists to defray the expenses connected with research, and the Executive Committee will be glad to receive applications from members for grants, while the Research Sub-Committee will gladly give any assistance in its power in regard to the planning or carrying out of an investigation. All applications should be addressed to the Hon. Secretaries.

(1) Alkaloids. The limit of safety of mixtures containing strychnine and a bromide, iodide, or an alkali, and the extent to which the solubility of the resulting precipitate is influenced by other ingredients, such as alcohol, etc.

(2) Bismuth Phenate. An examination of commercial samples would be of interest.

(3) Casein Foods. Comparative examination of the so-called "foods" or "nerve-tonics" of the type represented by the combination of soluble casein and glycerophosphates, etc.

(4) Liquid Paraffin. Suggestions are invited as to the best means of administering this article internally.

(5) Mercury-Zinc Chloride. Is any change produced when dressings containing this body are sterilised by heat?

(6) Investigation of such changes in the strength of galenicals, etc., during preparation and on keeping, as may render the original formula an unfair criterion of the finished product—e.g., loss of ammonia in filtering tinct. quinine ammoniata, loss of formaldehyde from the tablets, loss in making syrup, ferri iodidi, etc.

PORTUGUESE OLIVE OIL.—Reports were prevalent at the end of the summer of 1913 that the great heat had dried up the olives, and that the crop would be very bad. Inquiries made of one of the large oil-merchants in Lisbon make it clear that these evil prophecies have proved quite true. It would appear that the actual yield of olives was very small, that such olives as were picked were very poor in oil, and that the oil they produced was of a very bad quality.—Board of Trade Journal.

Minor Botany.

Being the eleventh of a series of articles for pharmacy students which commenced on January 3, 1914.

THE Dicotyledons form the most important class in the whole plant kingdom. We noted the chief characteristics in our seventh article of this series (*C. & D.*, February 14, p. 34). Typically the floral envelope in the flowers of dicotyledons consists of two whorls, the outer of which (known as the calyx and individual parts as sepals) is protective in function, while the inner (called corolla and petals) serves for purposes of attraction either by its conspicuous colour and shape or pleasant odour. In quite a number of dicotyledons, either one or both these floral members are wanting. This may be due to non-development as judged by comparison with near relatives where they are present, or the floral envelopes may never have been present. Formerly

most dicotyledons whose flowers did not possess both sepals and petals were lumped together as "Incompletæ" (which term explains itself), and regarded as representatives in which part or the whole of the floral envelope had been lost. This is no doubt true of such plants as goosefoot and dock, but fossil records favour the view that the catkin family (willows, oak, elm, etc.) never had more than a simple perianth of a single whorl, willows being among the first dicotyledonous types met with in fossils. The white or common willow (*Salix alba*, Linné), which may attain a height of 80 feet, is a tree common along the banks of streams or on marshy ground in England. The alternately arranged leaves are elongated oval in shape or lanceolate (from resemblance to lance-head), with sawlike (serrate) margins and a sharp drip-tip (acuminate). They have downy (pubescent, *pubes*=youth) hairs on both surfaces.

The inflorescence is a special kind of spike known as a catkin, which consists of an axis crowded with "male" or "female" flowers (the plants being dioecious) borne in the axils of elliptical bracts. In April the "male" willow is conspicuous by reason of the yellow appearance of the numerous catkins it bears, each bract having two slender stamens terminated by bright yellow heads (anthers). The "female" catkins (compare figures) are not so noticeable, each bract enclosing a shortly stalked ovary of two carpels [indicated also by the cleft (bifid) stigma, which has a single cavity (uni-ocular) but two rows of ovules down the sides (parietal)]. Each flower has a honey-disc at the base of the stamens or carpels, these attracting insects, especially bees, at a time when flowers are few.



SALIX ALBA.



Indeed, the willows show a simple adaptation to pollination by animal agency (entomophily), the closely allied poplars being wind-pollinated (anemophily). The seeds of both have a tuft of hairs at the base which enables them to be carried considerable distances by the wind (seed-dispersal). The bark of the white willow contains a glucoside (salicin) which makes it of importance to pharmacy. There is among botanists a tendency to regard such products, especially when they occur in bark (i.e., tannins), as excretory or waste products, but this can hardly be the case with salicin, which is a possible source of food-material (sugar), and which notably diminishes in quantity in spring. Salicin may have another function as a protection against bites of animals owing to its bitter taste.

Pollarded willows—i.e., willows which have been cut down to a height of a few feet—are a common sight. The object is to induce the development of long straight shoots from the crown. These, cut off and peeled, form the osiers used in basket-making, the bark being a useful by-product for the manufacture of salicin.

New Remedies.

THE following have been introduced since the series in *The Chemist and Druggist Diary*, 1914:

Asellomaltyl.—Maltyl (a dry malt extract) containing 20 per cent. of cod-liver oil and 3 per cent. calcium glycerophosphate.

Coagulen Kocher-Fonto.—A new hæmostatic, said to produce coagulation the instant it comes in contact with the blood. Applied to the orifice of a bleeding vessel it causes the immediate formation of a thrombus. It represents the coagulating principle contained in animal blood. For use, a 10-per-cent. solution of the powder is prepared, and sterilised for five minutes at 100° C.

Digipoten.—A new digitalis preparation issued in tablet form. Each tablet, containing 0.03 gram of digipoten, represents the active digitalis glucosides in soluble form and standardised.

Diogenal.—A bromine derivative of diethylbarbituric acid—dibromopropylbarbituric acid. Exhibits a purely sedative effect, and is intended for use in cases where the sedative action, but in a more pronounced form, of diethylbarbituric acid is desired, to the exclusion of its hypnotic effect. Given in doses of $7\frac{1}{2}$ to 15 grains.

Eusitin.—Tablets containing the mucin substances obtained from *Althæa rosea syriens*. Intended for use in the treatment of obesity, the employment of these tablets being based upon their property of abolishing the feeling of hunger from which patients suffer who are placed on a limited diet.

Glaucobinde (glauco-bandage).—A zinc gelatin, or ichthyol-zinc gelatin, bandage prepared according to Unna's directions, issued ready for use.

Leukozon.—Calcium perborate mixed with talc and standardised to a content of 5 per cent. of available oxygen. Used as an antiseptic dusting-powder.

Novotryposafrol.—A derivative of tryposafrol, for use in trypanosome infections and also in veterinary medicine.

Optochin Hydrochloride.—Ethyl hydrocupreine. (See *C. & D.*, February 28, p. 66).

Phenoal.—2-bromo-isovaleryl-*p*-phenetidine. White, glistening, tasteless and odourless needles, insoluble in water. A harmless sedative in nervous diseases, given in doses of $7\frac{1}{2}$ to 15 grains. Issued in powder form, and in tablets each containing $7\frac{1}{2}$ grains.

Pikrastol.—Dimethylodiformylmethenyltetramethylen-pentamine. A colourless or yellowish viscid mass, miscible with water and alcohol. Given in doses of 5 to 50 drops three times daily in epilepsy. Is issued in 25-per-cent. solution.

Riopan.—A concentrated preparation of ipecacuanha sent out as a brownish powder, soluble in water. It is standardised to contain 50 per cent. of ipecacuanha alkaloids in the form of their hydrochlorides; the other more or less inert substances are also present. One part of riopan is equivalent to 20 parts of ipecacuanha-root. Issued in powder and tablets of 0.001 gram of ipecacuanha alkaloids=0.05 gram of root.

Silver Methylene Blue.—Contains 24 per cent. of silver. Is being tried as an antiseptic, as it is assumed to possess a powerful bactericidal action in various infectious processes.

ENGLISH AND WELSH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Plans for extensions to the works of Horlick & Co., manufacturers of malted milk, have been passed by the Slough Urban Council.

The shop of Messrs. Bottle & Co., Dover, was invaded by a cow one day this week. After admiring the vocal efforts of the staff she beat a retreat, doing the minimum of damage.

Sir W. Lever, Bart., is to lecture in the Social Economics section at the summer meeting of the University of Cambridge from July 31 to August 21. He will deliver a course of addresses on "Co-partnership."

The Associated Chambers of Commerce, at the meeting in London last week, adopted the Manchester resolution urging on the Government to amend the rules under the Patents Act, 1907, so as to place on the patentee the burden of proof against an application for revocation of a patent for non-working.

According to "The Times" there has been formed at the University College Hospital Medical School, London, W., a "poison museum" containing samples of the principal poisons employed in destroying life, and pathological specimens showing the action of corrosive poisons on the mucous surfaces of the human body. There are other exhibits connected with medico-legal matters.

Mr. J. Cleworth sends us a fine photograph of the old training-ship *Wellesley*, one of the last of the "wooden walls of England," which was destroyed by fire in Shields Harbour on March 11. He adds: "Strange to say, at the very moment I was showing a lantern-slide of it at my lecture, it was burning fiercely and almost a total wreck." The photograph shows the 300 boys who cheered the B.P.C. visitors to Newcastle on the steamer conveying them to Shields.

The annual report of the National Amalgamated Union of Shop-assistants, Warehousemen, and Clerks (which recently formed a branch for druggists' warehousemen) states that the membership at the end of 1913 was 85,945, an increase of 6,000 for the year. Minimum-wage scales were established in various parts of the country, by the Union without any serious dislocation. The wages of members have increased between 30,000l. and 40,000l. per annum. Negotiations with a number of firms also secured a reduction in the hours of labour. The report states that it is the intention of the Labour party to introduce during the present Session on behalf of the Union a Bill to amend the Shops Act.

Guardians' Doings.

Mr. W. L. Bailey, F.C.S., assistant-dispenser to the Sheffield Board of Guardians, has had his salary advanced by 5l., to bring it up to the new minimum scale, 110l. (*C. & D.*, February 28, p. 58).

The Chepstow Guardians at their last meeting decided upon various increases in the salaries of their medical officers, this to cover the cost of drugs and expensive medicines supplied, previously paid for separately.

The Camberwell Guardians have decided to extend to all the year round the Saturday afternoon closing of dispensaries at 2 p.m. which was adopted during the summer months. Urgent medicines will be dispensed by local chemists at Insurance rates.

The Bedwelley Guardians, on the resignation of their medical officer, Dr. H. G. Brown, have reorganised their medical arrangements. Formerly the medical officer had an inclusive salary, out of which he found drugs and paid for the dispenser's services. Mr. N. J. V. Hannen, who has acted as dispenser for sixteen years, is in future to be paid direct by the Board, who also are to provide the drugs, etc.

Camberwell Guardians have decided to purchase a sight-testing apparatus for use by the medical officer at an estimated cost of 16l. Up to the present spectacles have

been bought by the gross and inmates allowed to choose those which they consider most suitable. The prescriptions for eyeglasses will be filled by opticians.

A Smart Notice.

Before daylight on March 14 someone broke a hole in the window of the pharmacy of Mr. J. S. Snell, in Burnley Road, Accrington, and extracted therefrom 2*l.* 15*s.*, part of a sum of 3*l.* 17*s.* 6*d.* in cash which was being displayed in the window as prize-money in connection with a "Limerick" competition. The thief in his hurry to get away apparently had not time to grab the whole of the money. Mr. Snell, on discovering his loss, promptly put up the following notice: "Will the gentleman who was in such a great hurry to secure the first prize please call again? He left half-a-crown behind him." A stream of people stopped to read the notice.

Birmingham Notes.

There is an epidemic of whooping-cough in Birmingham just now. Seventeen deaths occurred from this complaint last week among 213 cases.

Mr. W. Izon's lecture at the Birmingham Town Hall was a great success. He is now much sought after as a first-rate Sunday lecture Society's devotee.

The plight of chemists in not being paid in full for their services under the Insurance Act is being referred to daily in the local Press either as news or in the correspondence columns. It is considered to be a grave matter when the State does not set a good example of commercial integrity.

Liverpool Notes.

Business is quiet locally owing to the mild weather. Dispensing is down to half the usual number of prescriptions. During February there was a run on mag. cit. and health salines instead of cough-cures and chest-protectors. The only redeeming feature is a growing demand for disinfectants by local dairymen and cow-keepers following the outbreak of foot-and-mouth disease.

Great trepidation has ensued among local chemists at the action of a London firm of aerated-water manufacturers in trying to get them to sign a declaration to the effect that they are personally responsible for syphons they have out on loan belonging to this firm. The Birkenhead chemists met privately to consider the position. One chemist stated that he had paid about 10*l.* Others said they were taking no notice of the communication.

Manchester Notes.

Messrs. Thompson & Capper, of Piccadilly, are having a sale of photographic materials, cameras, etc., some of which they describe as real bargains.

Most chemists are complaining of the slackness of trade, which is rather surprising, considering the changeable weather conditions and the prevalence of a large amount of sickness. Insurance dispensing is just as brisk as ever.

Sheffield Notes.

The public appeal for a radium supply for the use of the Sheffield hospitals has realised between 5,000*l.* and 6,000*l.* so far.

Mr. Turner, the district representative of Messrs. Parke, Davis & Co., is making his headquarters in Sheffield at 54 Broomgrove Road.

Mr. E. S. Padden, of High Street, Attercliffe, is always well to the fore in the East-end with his window-dressing. Just now he has a display of cherry cough-mixture. Attention is drawn by a dark-blue disc upon which the word "YOU" appears in white letters surrounded by small words in small type, "cannot get anything better."

Wine-licences.

A medicated-wine licence has been granted to Mr. G. Cheetham, Mercer Row, Louth, Lincs.

Mr. William Parrott, of Parrott's Drug-stores, Ltd., Bishop's Stortford, was refused a licence at the adjourned Licensing Sessions there on March 12.

At the adjourned Leeds Brewster Sessions on March 12, an application by Mr. Nathaniel N. Armitage, Ph.C., 114 Tong Road, Armley, Leeds, for a wine-licence was refused.

Poison-licences.

The Tynemouth Corporation have granted poison-licences to J. T. Smurthwaite, W. B. Smurthwaite, and J. A. Ord.

Mr. L. Mutimer has been granted a licence by Ealing Town Council to sell agri-horticultural poisons at No. 9 Churchfield Road, Ealing (C. & D., February 21, p. 39).

Masonic Notes.

Mr. Ralph M. Ling, chemist and druggist, Church Street, Cromer, has been appointed Senior Warden of the Baring Lodge of Freemasons.

Mr. W. L. Towers, pharmacist, 10 Railway Street, Chatham, was installed Z of the Montague Guest Chapter at the Imperial Restaurant, Regent Street, London, W., on March 11.

"Uncertificated" Deaths.

At an inquest held at Sowerby, Yorks, on March 13, the Halifax Coroner (Mr. E. H. Hill) stated that a new order had been issued by the Registrar-General that all cases in which a certificate had been given by a man who was not "qualified" must in future come before the local Coroner. When such cases came before him he felt bound under the Coroners Act to hold an inquest. [From inquiries at Somerset House it appears that a new regulation issued by the Registrar-General for England and Wales requires "all uncertificated deaths" to be reported to the local Coroner. By "uncertificated" is meant cases not attended by a registered medical practitioner. It is within the discretion of the Coroner to hold an inquest.—EDITOR C. & D.]

From Various Courts.

At Birmingham on March 9, A. E. Walton (25) was remanded on a charge of breaking into the shop of Boots, Ltd., Broad Street, Birmingham (C. & D., March 14, p. 102).

At West Ham Police-court on March 18, Archibald Christopher Triggs (30) was committed for trial on a charge of wilful murder of Alice Amelia Hansen, by attempting to perform an illegal operation. Dr. B. H. Spilsbury said he was of opinion that the death of the woman was due to heart-failure from shock, arising from the manipulation of the genital organs.

SCOTTISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Brevities.

Montgomerie, Stobo & Co., Ltd., Victory Works, Mile End, Glasgow, are applying for an agri-horticultural poison-licence.

Mr. Scott, chemist and druggist, late of Messrs. Allen & Hanburys, Ltd., London, has taken over the business of Mr. Kennedy, chemist and druggist, Hawick.

Mr. James Inglis has become a partner with his mother-in-law (Mrs. Fewtrell) in the business of the late John Fewtrell, chemist and druggist, 19 Main Street, Turriff.

Mr. Alex. Robertson (Alex. Robertson & Sons, Argyle Chemical-works, Oban) is now on a tour in Australasia, and sends us from Napier, N.Z., a newspaper cutting which reports that all the chemists there are closing at 6 p.m. instead of 8 p.m. as formerly.

Edinburgh.

A writer in a local paper recommends a little sal volatile in water to be given to ailing plants.

Mr. George Lunan, Ph.C., F.C.S., has been appointed captain of the Edinburgh Golf Club, and presided at the annual dinner in the Carlton Hotel on Thursday, March 12.

A local evening paper, in referring to the marriage next month of Miss Ethel Lawson-Johnston, daughter of the late John Johnston, the inventor of Bovril, to Captain Percy Laurie, 2nd Dragoons (Royal Scots Greys), gives

portraits of the happy pair and states that Mr. Johnston at one time had a butcher's shop in Clerk Street, Edinburgh, which he disposed of to Brechin Brothers when he went to Canada.

At the meeting of the Scottish Co-operative Wholesale Society on March 14, the Chairman, Mr. Stewart, J.P., said the results of the half-year were highly gratifying, as the sales had reached 4,628,455l. 14s. 7d., an increase of 5.7 per cent. over the corresponding half-year of 1912. During the year all the productive works of the Society had been active, the total value of the products attaining the record amount of 2,681,246l. 11s., an increase of 149,183l. 0s. 11d., or 5.8 per cent.

Fife.

There is a rumour that the Cowdenbeath Co-operative Society intends opening a drug-department.

Employés of the Kinghorn Bottle-work Co., Ltd., resumed work this week, after a three weeks' strike.

Mr. Wm. Smart, chemist and druggist, Buckhaven, has been nominated as a candidate for the School Board.

Mr. A. G. Adamson, 1 Links Street, is the chemist who intends opening a shop at 219 Links Street, Kirkcaldy, as a branch.

Mrs. Key, wife of Mr. G. B. Key, chemist, Kirkcaldy, has recently presented a northern seal, three days old, to the museum of the local Naturalists' Society.

Sir Michael B. Nairn, Bart., Rankellour, some years ago presented Kirkcaldy with a splendidly equipped hospital, which he has since twice enlarged. He is now arranging to add a large ward with twenty beds, theatre, anæsthetic-room, sterilising-room, x-ray room, and additional staff accommodation.

IRISH NEWS.

Subscribers are invited to send to the Editor newspapers containing news of trade interest. Please mark the items.

Pharmaceutical Society of Ireland.

As a result of the winter sessional class examination of the School of Practical Chemistry, the first prize has been awarded to Mr. Hubert Sweeny, and the second prize to Mr. James Joseph McHenry. A new (day) session will commence on April 1.

The Lord Lieutenant has approved of the appointment by the Council of the Pharmaceutical Society of Mr. Robert S. Conyngham, M.A., M.P.S.I., as an examiner for the Preliminary examination for the purposes of the Pharmacy (Ireland) Acts, in place of Mr. James Moles, B.L., whose term of office has expired.

Brevities.

Mr. Roden Johnston, Ph.C., Downpatrick, has been appointed contractor for the supply of medicines, etc., to the Down District Lunatic Asylum.

The drug-contract for the Galway County Hospital has been awarded to Messrs. Boileau & Boyd, and the contract for the supply of surgical appliances to Messrs. Adamson & Co.

Mr. Robert Cambridge, J.P., ex-President of the Chemists' and Druggists' Society of Ireland, has been appointed Vice-Chairman of the Carrickfergus Technical Institute Committee.

Mr. C. McMullan, Belfast, tendered for the analyst's work to the Mount Bellew Guardians for a yearly salary of 16l. It was decided to re-advertise, as it was stated that Mr. McMullan is doing the work of another union for 6l.

At Belfast Police Court last week, a coachman in the employment of Sir William Whitla, Ph.C., was summoned for having driven a carriage and pair of horses to the danger of pedestrians in Shaftesbury Square on March 5. Sir William Whitla stated that the horses were not being driven furiously, or to the danger of the public. The case was dismissed.

Drugs and Surgical Appliances Contracts.

The following additional tenders have been accepted by Boards of Guardians for the supply of medicines and surgical appliances for the ensuing year:

—	Drugs.	Surgical Appliances
Ardee ...	Boileau & Boyd (Dublin), 28½%	Fannin & Co. (Dublin), 35%
Armagh ...	Boileau & Boyd, 28½%	Same contractors, 36½%
Athlone ...	Boileau & Boyd, 28½%	Fannin & Co. 35%
Athy ...	Boileau & Boyd, 28½%	Same contractors, 33½%
Ballina ...	Boileau & Boyd, 28½%	Connor & Sons (Newry), 33½%
Ballinasloe ...	Boileau & Boyd, 33½%	Adamson & Co. (Ballina), 34%
Ballycastle ...	Boileau & Boyd, 27½%	Fannin & Co., 35%
Balinglass ...	Boileau & Boyd, 28½%	Same contractors, 33½%
Bandon ...	Cork Chemical and Drug Co., 28%	Same contractors, 33½%
Bawnboy ...	Boileau & Boyd, 25½%	Fannin & Co., 33½%
Belfast ...	Boileau & Boyd, 33½%	Fannin & Co., 35%
Boyle ...	Boyers & Co. (Sligo), 22½%	Fannin & Co., 35%
Carrick-on-Shannon ...	Boileau & Boyd, 28½%	Adamson & Co., 35½%
Cashel ...	Boileau & Boyd, 28½%	Fannin & Co., 33½%
Castlebar ...	Boileau & Boyd, 27½%	Adamson & Co., 37½%
Castlecumber ...	Boileau & Boyd, 27½%	Fannin & Co., 33½%
Clogheen ...	Boileau & Boyd, 27½%	Same contractors, 33½%
Coleraine ...	Boileau & Boyd	J. Clarke & Co. (Belfast)
Corrofin ...	Boileau & Boyd, 25%	Fannin & Co., 31%
Downpatrick ...	Boileau & Boyd, 28½%	Fannin & Co., 36½%
Drogheda ...	Boileau & Boyd, 30½%	Fannin & Co., 35%
Dromore (W.)	Sumner & Co. (Liverpool), 25%	Adamson & Co.
Dublin (S.) ...	Boileau & Boyd, 33½%	Fannin & Co., 36%
Dundalk ...	Boileau & Boyd, 30½%	Same contractors, 36½%
Dungarvan ...	Boileau & Boyd, 28½%	Same contractors, 33½%
Dunshaughlin ...	Boileau & Boyd	Same contractors
Edenderry ...	Boileau & Boyd, 28½%	Same contractors, 33½%
Ennis ...	Boileau & Boyd, 33½%	Adamson & Co., 34%
Ennistymon ...	Boileau & Boyd, 25½%	Same contractors
Granard ...	Sumner & Co., 30%	Adamson & Co., 33½%
Inishowen ...	Sumner & Co., 25%	Connor & Sons, 30%
Kanturk ...	Boileau & Boyd, 27½%	Cork Chemical and Drug Co., 33½%
Kells ...	Boileau & Boyd	Fannin & Co.
Kenmare ...	Boileau & Boyd	Fannin & Co.
Kilkeny ...	Boileau & Boyd	Same contractors
Killarney ...	Boileau & Boyd, 28½%	Same contractors, 33½%
Killmallock ...	Boileau & Boyd, 28½%	Fannin & Co., 23½%
Kinsale ...	Cork Chemical and Drug Co., 28%	Same contractors, 33½%
Larne ...	Boileau & Boyd, 30%	J. Clarke & Co., 35%
Lisburn ...	Ben Clarke & Co. (Belfast)	J. Clarke & Co.
Longford ...	Boileau & Boyd, 27½%	Fannin & Co., 33½%
Lurgan ...	Boileau & Boyd, 31½%	Fannin & Co., 36%
Mallon ...	Boileau & Boyd, 30%	Cork Chemical & Drug Co., 33½%
Midleton ...	Cork Chemical and Drug Co.	Same contractors
Millstreet ...	Cork Chemical and Drug Co., 22½%	Same contractors, 33½%
Mitchelstown ...	Boileau & Boyd, 25%	Same contractors, 33½%
Monaghan ...	Boileau & Boyd, 28½%	J. Clarke & Co., 34½%
Manorhamilton ...	Sumner & Co.	Fannin & Co.
Mount Bellew ...	Boileau & Boyd, 27½%	Fannin & Co., 36%
Nenagh ...	Boileau & Boyd, 28%	Same contractors, 33½%
Newry ...	Boileau & Boyd, 31%	Fannin & Co., 36%
Newtownards ...	Boileau & Boyd	J. Clarke & Co.
Oldcastle ...	Boileau & Boyd	Fannin & Co.
Rathdown ...	Boileau & Boyd, 25½%	Fannin & Co., 28½%
Roscommon ...	Boileau & Boyd	Fannin & Co.
Thomastown ...	Boileau & Boyd, 25½%	Same contractors, 30%
Tipperary ...	Boileau & Boyd, 28½%	Fannin & Co., 33½%
Tubercurry ...	Boyers & Co. (Sligo), 22½%	Adamson & Co., 36½%
Waterford ...	Boileau & Boyd, 31%	Fannin & Co., 35%
Westport ...	Sumner & Co., 25½%	Adamson & Co., 37½%
Wexford ...	Boileau & Boyd, 31%	—

The Westport Guardians accepted the tender of Messrs. Sumner & Co., although it was not the lowest, as the firm making the other tender had not proved satisfactory contractors during the past year. The Athlone Guardians

made a special point about prompt delivery of supplies, and are to make it a condition that goods be supplied within a week of ordering. The tender of Messrs. Boyers & Co. (Sligo), which the Tobercurry Guardians accepted, was not the lowest, but was preferred on account of convenience. The tender of Messrs. Sumner & Co. (Liverpool) was accepted by the Dromore and Granard Guardians, although preference was expressed for an Irish contractor. As the tenders referred to were the lowest, it was pointed out that the rebate allowed by the Local Government Board would be lost if Messrs. Sumner's tenders were not accepted.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent.)

A PARISIAN EVENING PAPER announces that "a Milan pharmacist has put on the market a new purgative, which he has christened 'La Joconde.' A reproduction of the masterpiece of Leonardo da Vinci appears on the label, with the inscription 'Italian purgative mineral water, relieves the body and produces a happy frame of mind.'"

PERFUMERS' FEDERATION.—According to the "Parfumerie Moderne," a "Fédération Française des Syndicats de Parfumerie" has been formed, on the initiative of Monsieur Darrasse, President of the Paris syndicate. The aim of the Federation is stated to be to protect the French perfumery and soap industry against fraudulent practices, and to advertise the superiority of the French perfume industry.

M. GASTON CALMETTE, the editor of the "Figaro," who was murdered on Monday afternoon, March 16, by Mme. Caillaux, wife of the French Chancellor of the Exchequer, was a brother of Dr. Calmette, director of the Pasteur Institute at Lille, well known as a bacteriologist of high standing. Another brother is an inspector-general in the French Army Sanitary Corps. Immediately after the tragedy, which occurred at half-past 6 p.m., first aid for M. Calmette was obtained from the Pharmacie Normale, a well-known and old-established pharmacy in close proximity to the offices of the "Figaro," at the corner of the Rue Drouot and the Rue de Provence, Paris.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of nine Chemists' Societies in Australia and New Zealand.

New South Wales.

DENTAL REGISTRATION.—The Dental Board of New South Wales in 1908 granted to Thomas Lockett, who had passed an examination and paid the requisite fees, a parchment authorising him to practise as a dentist and to use the letters "L.D.S." (Licensed Dental Surgeon) after his name. Under the Act of 1909 new regulations were made prohibiting the use of such letters. On December 22 Lockett was proceeded against by the Board and found guilty of "infamous conduct in a professional respect" in using the letters "L.D.S." after his name. Unless the use of the said letters was discontinued within one calendar month his name was ordered to be removed from the register of dentists of New South Wales. Lockett lodged an appeal to the Supreme Court.

New Zealand.

NATIONAL HEALTH INSURANCE.—The Friendly Societies Parliamentary Committee has reported recommending a State subsidy to the Friendly Societies of 2s. 6d. per week towards the cost of the allowance to members in respect of sickness of more than twelve months' duration, or in the case of male members over sixty-five or females over sixty, and a subsidy towards a funeral benefit up to 15l. for a male member and 7l. 10s. for a female member. The Department does not recommend the subsidising of medical benefit, as that is the outcome of bargaining between societies and other parties.

THE SHOPS AND OFFICES BILL.—Evidence taken by the Parliamentary Committee has been printed. It includes that of Mr. W. S. Wallace, chemist, Wellington, who claimed that if chemists have to keep their shops open for the benefit of the public they should not be restricted as to what they may sell, provided that only ordinary stock-in-trade is dealt with. Mr. A. M. Loosby, Christchurch, asked that more than a quarter of an hour should be allowed for clearing the shop of customers after the closing hour. It is impossible to clear off nine or ten prescriptions which are in hand in the short time allowed.

Victoria.

WHOLESALE HOURS.—A circular issued on January 13 by the Melbourne wholesale houses notifies that owing to the operation of the Storemen's, Packers', and Sorters' Wages Board the warehouses from January 19 will be closed from 1 to 2 p.m. for luncheon, and finally for the day at 5 p.m., except on Saturdays, when the doors will close at 12 noon.

FOOD AND DRUGS STANDARDS.—It is announced that the Victorian Foods Standards Committee has almost completed the investigation of the standards proposed at the Inter-State Conference held in June 1912. With a few minor amendments, the whole of the draft regulations will be recommended for acceptance. This may include the regulation relating to proprietary medicines, which has been adopted from the Western Australian regulations.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is subscribed for and supplied weekly to all the members of the seven Chemists' Societies in British South Africa.

Orange Free State.

MEDICAL AND PHARMACY COUNCIL.—The monthly meeting was held on February 13, when the following members were present: The President (Dr. Ward), Drs. de Kock, Friedmann, Johnson, and Pretorius, Mr. Whiteside (dental member), and Messrs. Fowlie, Hewitt, and McMurray (pharmaceutical representatives). The following registration as a chemist and druggist was confirmed: Simon Grossmann (chemist and druggist, Great Britain, 1913). Address c/o Central Pharmacy, Senekal. The restoration to the Register of Arthur William Ventham, c/o Warren Bros., Rozettenville, Johannesburg, was confirmed.

Transvaal.

DENTAL LAW.—At the Johannesburg Court, H. Stein, 76 Siemert Road, was found guilty of practising as a dentist, he being unqualified and not registered under the Medical and Dental Law. He was fined 40l.

METHYLATED-SPIRIT REGULATIONS.—The department of Customs and Excise, Pretoria, has issued regulations to all dealers in methylated spirit in the Transvaal and Orange Free State, whereby a stock-book has to be kept showing the receipts and sales.

A MEETING of the Pharmaceutical Society was held at the School of Mines lecture-theatre, Johannesburg, on February 12, Mr. J. Christie (President) in the chair. Before a large audience Mr. E. J. Brown, Ph.C., delivered a lecture on "Ancient and Modern Materia Medica." Commencing with the early days, the part played by superstition was dealt with and the effect of workers, such as Hippocrates, Galen, Avicenna, and Paracelsus, was clearly shown by examples. The present-day use of enzymes and their action were fully gone into. Bacteria, sera, and vaccines, and their use in curative and preventive medicine, received a good deal of attention. The standardisation of drugs and its importance, with special reference to the methods of physiologically standardising cannabis indica, ergot, and digitalis, were fully explained. Cataphoresis, or the introduction of drugs into the body by means of the electric current, with examples, made this new kind of medical treatment interesting.

LEGAL REPORTS.

TRADE LAW.

'Chemist's Claim.—At the Edmonton County Court on March 17, Ronald G. Madden, chemist and druggist, Tottenham, sued Ernest Marriott for 30s., the price of a galvanic battery supplied. The defence was that the battery was obtained on hire, but judgment was given for the plaintiff.

The Prussiate Case.—When the application of the defendants in *Pochin v. The Crown Chemical-works* (see *C. & D.*, March 14, p. 107) again came before Judge Smyly in the Bow County Court on March 13, he decided that the money (67*l.*) which the defendants had paid into court should remain there, pending the result of the appeal, which he understood would come on in about a fortnight.

Camphorated Oil.—At Bow Street Police Court, before Sir John Dickinson, on March 13, Mr. John Morgan Davis, chemist, Coventry Street, W., was summoned under Section 6 of the Sale of Food and Drugs Act, 1875, for selling camphorated oil deficient in camphor to the extent of 60 per cent. Mr. C. F. Appleton, who appeared for the defendant, said the deficiency was due to a misadventure. A fully qualified assistant employed by the defendant put some oil on a stove, and placed some camphor beside it, intending to put it in at the proper time. He then went to luncheon, and when he returned he found that the camphor had disappeared. Assuming that someone else had put the camphor into the oil, he poured the liquor into a bottle, which already contained a small quantity of camphorated oil. Mr. Appleton added that there was no intention to defraud the public. The sale of camphorated oil at this old and well-known establishment was very small, and the whole thing was due to a mistake. The defendant was fined 40s., and 23s. costs.

Unregistered Dentists.—At Lambeth County Court, before Judge Parry, on March 14, Henry Keen, an accountant, 75 Dartmouth Road, Forest Hill, brought an action to recover 3*l.* 10s., a deposit paid for a new set of teeth, from Thomas Neal, trading as "Brook's Dental Surgery," at 70 Clapham Road, Kennington. Plaintiff said that defendant agreed to supply him with a new set of teeth and to remove his old ones for 7*l.* The teeth were to be extracted without pain, but he suffered excruciating pain. He did not go to him again, and afterwards learnt that defendant was not a registered dentist. Defendant said that he was a dentist's mechanic. Judge Parry: Blacksmiths used to extract teeth in the old days. Now it is the mechanic. (Laughter.) In giving judgment for plaintiff for the full amount claimed, with costs, his Honour said he could not understand people going to these "quack" dentists, seeing the large number of fully qualified professional dentists in London. They ran a great danger by going to men who could not be trusted. Plaintiff had had his lesson, and he hoped it would be a lesson to others.

Droitwich Brine Baths.—Mr. Justice Bailhache and a special jury, in the King's Bench Division of the High Court, on March 18, tried the action *The King v. Savoy Turkish Baths Co., Ltd.*, in which the plaintiffs, Viscount Cobham and Mr. Willis Bunn, trustees of the Corbett estate, owners of the Droitwich Brine-baths, summoned the defendants under the Merchandise Marks Act for an alleged false trade description in regard to their baths in London. The defendants had issued a pamphlet in which it was stated: "It is no longer necessary to journey to Droitwich to obtain the benefit of brine bath-water, as we have made arrangements whereby you can have Droitwich brine-baths in London." The baths were made from the salts obtained from Droitwich. This was said to be a false description within the meaning of the Act, because the bath produced from the salt differs from the natural water in not being radio-active. Mr. Horatio Ballantyne, F.I.C., F.C.S., said he went to the defendants' baths to have a "Droitwich brine-bath," and he received the pamphlet in question. There were no radio-emanations in the bath at all, as at Droitwich, and the gravity of the water was substantially the same as tap-water. The crystals had no radio-emanations. Mr. Kerly, K.C., on behalf of defendants, pleaded guilty, and the jury returned a formal verdict for the Crown, the Judge imposing a penalty of 10s., a nominal penalty only being asked for, and the plaintiffs did not ask for costs.

Congestion Bandages.—In the City of London Court on March 17, before Judge Atherley-Jones, K.C., the Roborat Co., Ltd., surgical-instrument makers, 6-7 Kinghorn Street, Aldersgate Street, London, sued the Leeds Surgical Supply, Ltd., 53 Park Lane, Leeds, for 1*l.* 17s. 5*d.* for congestion bandages supplied. Judge Atherley-Jones said that the

Court had received a letter from Mr. R. Rauschke, managing director of the defendant company, saying that he disputed the claim because the goods supplied were not in accordance with the order, and were immediately returned to the plaintiffs, pointing out that rubber bandages were ordered. They had lost a good customer by the delay which ensued. Mr. Edwin Clark, plaintiffs' solicitor, said that the defendants asked for a price-list of Professor A. Biers' original vacuum apparatus. Defendants ordered congestion bandages, and, as they were not in stock, they obtained them specially from the works, sending them to the defendants. Defendants found that by mistake they had ordered the things they did not want, and then repudiated the goods that were sent. They sent them back, and the plaintiffs returned them. Defendants again returned them, and plaintiffs now kept them at defendants' risk. Judge Atherley-Jones said that the plaintiffs had proved enough to entitle them to judgment. Mr. Clark asked for special costs, so that the defendants should be taught that they could not override a written order. Judge Atherley-Jones did not think he could do that, although it was quite obvious that the plaintiffs were justified in coming there.

Perfume-bottle Dispute.—In the City of London Court, before Mr. Assistant Registrar Tattershall, on March 11, the Anglo-Foreign Manufacturing Co., Ltd., Paper Street, E.C., sued Messrs. Jago & Jerome, 66 Nelson Street, Manchester, for 5*l.* 5s., being the balance due on an account of 14*l.* 7s. 9*d.* for perfume-bottles supplied in October. Mr. MacDonald was counsel for the plaintiffs, and the defendants were represented by their manager. It appeared that the plaintiffs' representative called on the defendants, and by request a quotation and terms were sent to the defendants on the strength of which an order was given for a certain quantity of bottles of 3-dr. capacity, but $\frac{1}{2}$ -oz. bottles were sent instead of the 3-dr.; but the goods were accepted, and a letter waiving the alteration in capacity was read by the plaintiffs' counsel. By the terms of the contract especial reference was made as to breakage in the following words: "All the above prices are strictly net cash, free house. Breakages not allowed." An extensive correspondence was read which had taken place between the parties, but which confirmed the plaintiffs' case in every instance, and the Assistant Registrar called upon the defendants' manager for the defence. This appeared to consist, firstly, as to the breakages, of which there were many, the witness contending that the bottles, which were required for perfume, were badly packed in the crates; but this point was overruled by the Assistant Registrar, owing to the original contract expressly repudiating all responsibility for them. Other two points as to capacity of the bottles and delay in delivery were also overruled, and judgment was entered for the amount claimed, with costs.

Perfume in Pottery Ware.—An action was brought in the local County Court last week by Charles Collard & Co., Ltd. (the Crown Dorset Art Pottery), Poole, against Harry Walker, manager of the British Perfume Co., Poole, to recover 15*l.* 17s. 1*d.*, being balance of the price of goods sold and delivered, amounting to 19*l.* 8s. 2*d.*, from which had to be deducted some items, totalling 3*l.* 11s. 1*d.*, and including 2*l.* 16s. 3*d.* credit for in respect of goods returned. There was a counterclaim for 35*l.* 3s., the main items being 8*l.* 19s. in respect of damages in connection with alleged defective ware supplied by plaintiffs (less of perfume being set down at 7*l.* 16s. 1*d.*), and 25*l.* as damages for breach of contract entered into on September 8, 1913, for the delivery of pottery ware, and consequent loss of profit on orders which could not be fulfilled. It appeared from a statement by defendant that last September he placed an order with plaintiffs for 461 dozen of pottery ware for the purposes of perfume-filling and pot-pourri, the goods to be supplied as required. He found that within a short time the bottles his company had filled were empty, and he (defendant) attributed this to defective glazing. He had devised a glazing formula, and it was agreed between him and the company that his glazing was to be used in the manufacture of the pottery. He had received orders to the value of 100*l.*, but could not execute them owing to the non-delivery of the pottery, and he estimated his loss in that respect at 25*l.* His profit would have been 33½ per cent. A forewoman of the defendant's corroborated the statement as to leakage. Mr. C. H. Collard, managing director to the plaintiff company, deposed that originally they dealt with the British Perfume Co. when the principal was Mr. R. Walker, who was related to defendant. The latter went to them some months ago, and intimated that he had taken over the business. He (witness) agreed to let defendant have pottery on cash payments. When he pressed defendant for cash, the latter said he was expecting someone from Gloucester to put 1,000*l.* into the business, and added that the moment that happened he (defendant) would revert to the original arrangement as to the payment

of cash. Evidence was also given as to the glazing. In the result the Judge held that there was a contract and a breach of a contract. He felt that the damages of 25*l.* were beyond anything that could be asked, and reduced the claim to 12*l.* 10*s.* The loss of perfume was but an estimate, and he reduced that also, giving judgment altogether on the counterclaim for 17*l.* 1*s.* Plaintiff would get judgment on the claim for 15*l.* 17*s.* 1*d.*

CREDITORS' MEETING.

A MEETING of the creditors of William Renwick Nicholson, the Drug-stores, 214 Ravensworth Road, Dunston, was held in Newcastle-on-Tyne on March 16, when a statement of affairs was submitted showing liabilities amounting to 127*l.* 0*s.* 8*d.* and estimated assets 40*l.* 8*s.* 5*d.* It was reported that the debtor, in order to protect the estate for the general body of creditors, had executed a deed of assignment to Mr. G. J. Bell, in whose office the meeting was held. It was stated that an offer of 40*l.* had been received for the estate, on condition that all the creditors assented to the deed. The following are creditors: J. H. Bernstone, Newcastle (12*l.*); A. de St. Dalmas & Co., Leicester (10*l.*); Greenwood, Punter & Co., Newcastle (5*l.*); Hall, Forster & Co., Ltd., Newcastle (10*l.*); Hirst, Brooke & Hirst, Ltd., Leeds (11*l.*); J. Ismay & Sons, Newcastle (10*l.*); Saml. Wilkes, Gateshead (24*l.*); Wilkinson & Simpson, Ltd., Newcastle (9*l.*); Wigglesworth & Co., Bolton (6*l.*).

BANKRUPTCY REPORTS.

Re John Alexander Story, 84 Oxford Street, W.—Under a receiving order made on March 5 against this debtor, formerly the proprietor of Kimball's anti-rheumatic ring, the first meeting of the creditors was held at Bankruptcy Buildings, Carey Street, W.C., on March 18, when a statement of affairs was submitted showing liabilities 872*l.* 1*s.* 1*d.* and assets 1*l.* There was no offer of composition, and the case remains in the hands of the Official Receiver.

Re Charles Henry Booth, late of 394 King's Road, Chelsea, S.W., Chemist and Druggist.—This debtor applied for his discharge at the London Bankruptcy Court on March 18. He was adjudged a bankrupt on August 18, 1900, when debts proved and provable aggregated 944*l.* 9*s.* 2*d.*, while the assets realised 84*l.* 14*s.* 9*d.* The debtor had commenced business in January 1896 by purchasing the above business for 300*l.*, and continued it until May 1900, when he sold it for 700*l.*, of which, so he alleged, 224*l.* was lost by betting and the balance paid in discharging a portion of his liabilities and in living expenses. He also traded at Sutton. Having heard the Official Receiver's statement, Mr. Registrar Hope suspended the discharge for two years.

BUSINESS CHANGES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

Mr. A. H. JONES (Ayrton, Saunders & Co., Ltd.) has removed to 99 Grange Avenue, Leeds.

Mr. G. H. PIERSON, Ph.C., has opened a branch pharmacy and photographic store at East Barnet.

Mr. J. J. NUTTALL, pharmacist, formerly dispenser at Chesterfield Hospital, has now opened his pharmacy in Church View, Staveley.

Mr. A. E. MILLS, pharmacist, has purchased the business until recently carried on by Miss Grace I. Renuie, chemist and druggist, at 8 George Street, Bath.

MESSRS. ROBERT SUMNER & Co., of 50A Lord Street, Liverpool, wholesale druggists, are shortly removing to more commodious premises in Hanover Street, Liverpool.

THE BUSINESS of the late Mr. T. J. Rouw, at St. Peter's Square, Ruthin, is being continued by his widow, under the management of Mr. R. I. Rogers, chemist and druggist.

Mr. E. R. CROSS, Ph.C., 94 Westborough, Scarborough, who has retired, has disposed of his business to Mr. F. A. Lund, chemist and druggist, late manager in the town for Taylor's Drug Co., Ltd.

LIMITED COMPANIES.

New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

A. G. FOSTER, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares (250 preference). Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, etc. A. G. Foster is the first director. R.O., 79 Leigh Road West, Leigh-on-Sea.

HALIFAX WHOLESALE DRUG CO., LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, chemical manufacturers, drysalts, oil and colour men, manufacturers of and dealers in salts, acids, alkalies, drugs, medicines, etc. The subscribers and first directors are J. W. Holdsworth and W. D. North. R.O., 5 John Street, Halifax.

RUSHTON, LTD. (P.C.).—Registered in Edinburgh. Capital 1,200*l.*, in 1*l.* shares. Objects: To acquire and carry on the business of the Universal Chemical Co., Govan, and Lilla & Edwards, sauce and pickle makers, Glasgow and Paisley, to carry on the business of chemical manufacturers, drysalts, etc. The first directors are E. R. Needham and J. Macpherson. R.O., 121 Queen Street, Govan, Glasgow.

WESSEX PERFUMERY AND POTTERIES, LTD. (P.C.).—Capital 2,000*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers, importers, and exporters of and dealers in scents, soaps and perfumes, toilet and proprietary articles, pottery and ware of all kinds, etc., and to adopt an agreement with H. Walker, who and L. L. Adams are the first directors. R.O., Westwood House, Poole, Dorset.

GARRATT & SON, LTD. (P.C.).—Capital 300*l.*, in 1*l.* shares. Objects: To take over the business carried on at 48 Warwards Lane, Selly Oak, Birmingham, as A. Garratt, and to carry on the business of manufacturers of and dealers in soaps, oils, oleaginous and saponaceous substances, pharmaceutical, manufacturing, and general chemists and druggists, etc. The subscribers are A. Garratt and A. J. G. Garratt. R.O., as above.

ELECTRO BLEACH AND BY-PRODUCTS, LTD.—Capital 180,000*l.* Objects: To carry on the business of manufacturers of and dealers in alkali, chlorine, bleaching-powder, soda-compounds, etc., and to adopt an agreement with the Financial Engineering and Chemical Co., Ltd., for the acquisition of the freehold lands and buildings, brine, and mineral rights, etc. The first directors are H. J. MacKinder, M.P., J. Swinburne, F.R.S., F. J. Dundas, E. G. Cubitt, J.P., and T. W. Stainer-Hutchins, A.M.I.E.E., A.M.I.M.E. R.O., Middlewich, Cheshire.

Company News.

A. & F. PEARS, LTD.—The directors have resolved to declare an interim dividend for the six months ended December 31, 1913, on the ordinary shares at the rate of 8 per cent. per annum (less income-tax).

EDWARDS' DENTAL MANUFACTURING CO., LTD.—The directors have declared and paid a dividend at the rate of 6 per cent. per annum on the participating preference shares, and on March 18 offered for subscription at par the balance of the unissued capital of the company—viz., 14,250*l.*—in 6 per cent. participating preference shares. The list closes on March 24. The sales of the company during 1913 were more (we are informed) than double those of the preceding year, and profits earned show an increase of 100 per cent. over the preceding year.

UNITED CHEMISTS' ASSOCIATION, LTD.—The annual general meeting was held at Cheltenham on March 11, Mr. Harold Miller (managing director) presiding. The directors' report and accounts were adopted. The retiring directors, Messrs. J. G. Jackson (Sheffield) and A. E. Bolshaw (Hastings) were re-elected. The auditor (Mr. W. Rowland Waller, F.C.A., 3 Bucklersbury, London, E.C.) was reappointed. Mr. Waller congratulated the members on the position of the company, and predicted a prosperous future for it. Mr. W. T. Hind (Leicester) was appointed the first "President of Ucal." This position is to be filled annually, and is to be the company's mark of appreciation. One speaker remarked that in time it would be a greater honour to be elected President of Ucal than to attain to any other position in pharmacy. Votes of thanks concluded a most successful meeting. It was mentioned that over 140 orders were in the office that day, and that to cope with increasing trade new buildings are to be erected.

EVANS SONS LESCHER & WEBB, LTD.—The annual general meeting was held on March 13 at the offices of the company, 56 Hanover Street, Liverpool, Mr. J. J. Evans (chairman of directors) presiding. In presenting the directors' report

and statement of accounts, the Chairman said the shareholders would join with him in an expression of regret that Sir Edward Evans was unable to be present owing to illness, but he was glad to say that Sir Edward is improving in health, and he trusted would soon be quite recovered. The Chairman referred to the death of Mr. F. J. Burd, and the appointment of Mr. G. W. Marris, Ph.C., as his successor. Turning to the accounts, Mr. Evans said that the year had been disappointing to the ordinary shareholders, as the directors were only able to declare a dividend for 1913 at the rate of 5 per cent. per annum, as compared with 7½ per cent. in the previous year. As explained in the report, the volume of business increased with chemists in Great Britain, partly due to the introduction of the National Insurance Act, but the reduction of profits was due to many increased expenses. In the early part of the year there were many serious extra expenses in executing a large number of orders for small quantities of drugs required by chemists who had gone on the panel. There had also been trouble in the labour market, which resulted in an increased minimum wage for both men and women, but the directors hoped this would mean a better service. With increased warehouse accommodation, a New York office for the purchase of crude drugs, bacteriological laboratories well established at Runcorn, an excellent staff of representatives at home and abroad, and a reputation second to none among chemists throughout the world, he hoped that next year would show a good improvement. The accounts this year were presented in a slightly different form, and he wished to point out that the preference dividend was a first charge on the trading profits of the company. The value of real estate showed an increase, and included the new warehouse in Seel Street. Plant had considerably increased owing to new purchases, etc., and was worth more than it stood at in the books of the company. In conclusion, the Chairman thanked all members of the staff for their loyal services, and expressed the hope that 1914 would be a record year and prosperous. The report (see *C. & D.*, March 14, p. 111) was unanimously adopted, and the retiring directors, Mr. A. B. Evans, Mr. J. H. E. Evans, and Sir Edward Evans, and the auditors, Messrs. Chalmers, Wade & Co., were re-elected.

SOUTHALL BROS. & BARCLAY, LTD.—The annual meeting was held in Birmingham on March 17. Sir Thomas Barclay presided, and, in moving the adoption of the seventeenth annual report, referred in detail to the figures set forth in it (*C. & D.*, March 14, p. 110). Sir Thomas remarked that the report could not but be greatly appreciated by the shareholders, and he proceeded to speak of the most important events of the year, Insurance Act Medical Benefit being placed first. He said the Act had engaged an army of dispensing chemists who before its enactment hardly ever saw a prescription, but now, as one-third of the population require their medicines to be dispensed by them, they are actively occupied in the work. These men were fully qualified by law to undertake these duties, but as the bulk of medical men previous to the passing of the Act dispensed their own medicines, the chemists had to turn their attention to general trading for a livelihood. In Birmingham last year some 320,000 persons were insured under the Act, and for these something like 970,000 prescriptions were dispensed. The amount due to be paid for 1913 to Birmingham chemists for these prescriptions amounted to 33,400*l.*, an average of about 8½*d.* per prescription. In the first quarter the prescriptions worked out at 7½*d.* each, in the second 8*d.*, in the third 8½*d.*, and in the fourth 9*d.* The average cost per prescription throughout the whole country is 7½*d.*; 5,760*l.* is still due to Birmingham chemists on last year's prescriptions. Sir Thomas was persuaded that if the Panel Committees and Pharmaceutical Committees do their work properly, the causes which have led to the deficiencies in certain districts will very largely disappear. In so far as the deficiencies are the result of special conditions predisposing to an abnormal amount of sickness, he was confident that the Government will not long be able to ignore these conditions, and will be called upon to remedy them. When Insurance dispensing commenced on January 15, 1913, it had been anticipated that there would be a great falling-off in the sale of proprietary medicines, and that the demand for counter specialities and household remedies would also be much less. Government statistics show, however, that there was only a small reduction in the sale of patent-medicine stamps during the year; indeed, not more than is experienced between good years and bad years. Further, the experience of panel chemists generally is that Insurance dispensing has improved rather than deteriorated other departments of their business. As far as the company's business is concerned, the year had necessarily been one of transition, adaptation, and extension. In the working of the business through the Insurance Act it has been found that

the demand for high-class pharmaceuticals, chemicals, and drugs has been exceptionally great; for example, the demand for potassium iodide, one of the chemicals manufactured by the company, has increased by 25 per cent. during the past year. Quinine has increased by over 33 per cent. The demand for bismuth salts and their preparations has been nearly three times as much as in the preceding year. For sodium salicylate the demand has more than doubled. Three times more senega was bought in 1913 than in 1912. The sales of concentrated infusions of various kinds have enormously increased. The rectified spirit bought in 1913 was greatly in excess of 1912. Sir Thomas went on to say that the new laboratories on the company's freehold site at Saltley had been working for some time, enabling them to manufacture numerous lines in fine chemicals which previously they were unable to undertake. The company is also now preparing its own vaccines. Reference was also made to other parts of the company's enterprise, particularly in regard to the new Vitafer factory in Ireland and colonial and export business. Mr. Thomas Barclay seconded the adoption of the report, which was agreed to unanimously. Mr. W. F. Southall was re-elected as director.

TRADE NOTES.

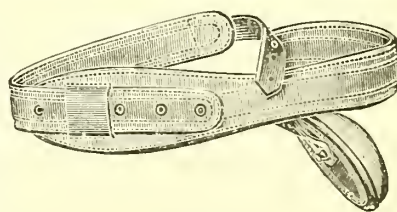
HAYDEN COFFIN TOOTH-POWDER.—This is being introduced by Hayden Coffin, T.P., 39 Victoria Street, London, S.W. It is sold in a compressed form, and there is also sold a tooth-brush which users of the powder are recommended to employ.

LONDON-MADE BOTTLES.—The advertisement of J. A. Curle, Ltd., Perseverance Glassworks, Homer Road, South Hackney, London, N.E., calls attention to the special prices at which the company is able to supply phials. Other bottles are also made at the works.

NEW PROPRIETARIES.—Messrs. Dearborn, Ltd., 32 and 34 Theobald's Road, London, W.C., announce that they are introducing two new proprietaries—Silmerine and Tekko paste. These are supplied on the condition that the company will take back unsaleable stock.

AZAX COMPOUND, a combined worm-killer and turf-fertiliser, is a purely vegetable substance, produced by Messrs. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E. From the description of it we judge it to be unique, and we suggest that chemists and druggists should inquire into it, with a view to establishing a local trade with bowling, golf, and tennis clubs, as well as with householders. The compound is put up in 14-lb., 28-lb., 1-cwt., and 2½-cwt. bags, and costs from 5*l.* to 14*l.* per ton, according to the nature of the packing.

IMPROVED "HERNICURA" TRUSS.—Messrs. John Morgan Davis & Sons, 63 Bishopsgate, London, E.C., have added a further improvement to their "Hernicura" truss. The new device, which is patented, consists of a leather strap adjustable at both ends. The end with metal eyelets attaches to the leather-covered spring by means of a strong hook and a leather loop. The result is that a 33-in. truss will fit, allowing for some further adjustment, patients requiring a truss from 30 to 36 inches. This results in a large saving of the sizes which need to be kept in stock. The head is also adjustable. We illustrate the new pattern, which is beautifully finished and costs the chemist 4*s.* 6*d.* each.



CHAULMOOGRA OIL.—We have received from Dr. E. E. Francis (Chittagong) a second letter on this subject, in the course of which he deals with the scarcity of the true oil, and criticises a report by Mr. E. J. Parry upon a sample of "Chaulmoogra oil" derived from a *Hydnocarpus*. Dr. Francis challenges Mr. Parry to "quote any author . . . who anywhere states that chaulmoogra oil is obtained from *Hydnocarpus Wightiana*."

WESTMINSTER WISDOM.

The Week in Parliament.

SHOPS ACT (1912) AMENDMENT BILL.

This Bill would make it illegal for a barber or hair-dresser in Wales and Monmouthshire to open his shop on Sunday.

HOMOEOPATHIC INSURANCE TREATMENT.

In the House of Commons on Wednesday, replying to Mr. Montague Barlow, Mr. Wedgwood Benn said it is open to an insured person who desires the services of a homoeopathic doctor not on the panel to apply to the Insurance Committee for leave to make his own arrangements for the purpose.

THE MANUFACTURE OF TUBERCULIN.

The President of the Board of Agriculture informed Mr. Stanier on Wednesday that he would consider the suggestion that his Department should themselves manufacture tuberculin to be used in this country, so as to get a standard quality, but that as at present advised he doubted whether it would be either necessary or practicable.

MERCHANDISE MARKS BILL.

This Bill contains provisions for the marking of goods as "British Empire made" or "not British" in a conspicuous manner. The British Empire includes the British Islands, the Dominion of Canada, the Commonwealth of Australia, the Dominion of New Zealand, the Union of South Africa, British India, the Crown Colonies, and British Protectorates. Sworn declarations will be required for all goods marked "British Empire made."

VETERINARY SURGEONS ACT (1881) AMENDMENT BILL.

This Bill, which has been introduced on several previous occasions, seeks to put at rest doubts as to whether persons registered as existing practitioners under the Veterinary Surgeons Act are subject to the jurisdiction of the Royal College of Veterinary Surgeons. "Existing practitioners" are made subject to the discipline of the College, and may call themselves veterinary surgeons. Provision is made for an annual fee, to be paid on or before a month after January 30 of each year, and giving the College power to sue for the fee if unpaid. Companies are also to be liable for offences the same as individuals.

THE COCAINE TRAFFIC.

Replying to a question by Sir Herbert Roberts on Monday, regarding the growth of the cocaine traffic in India, and importation of the drug from Germany, Mr. C. Roberts stated that the Secretary of State for India is afraid that any international arrangements for the suppression of the illicit traffic in cocaine must await the ratification and coming into force of the Hague Opium Convention. His Majesty's Government are doing all they can to secure the general and early adoption of the Convention. This Convention had been signed but not ratified, but he hoped that it would be ratified at an early date. He thought that legislation is actually being considered with a view to carrying out the provisions of the Hague Opium Convention.

MORPHIA AND MORPHIA SALTS.

The Home Secretary has informed Mr. Robinson that in the last five years the annual imports of opium have averaged 528,000 lbs., and the exports (including a small quantity dried and powdered in the United Kingdom) 235,000 lbs., leaving a net quantity of 293,000 lbs. A large proportion of this is used in the manufacture of morphia and morphia salts for export; but there are no available statistics as to the quantity actually retained for consumption in the United Kingdom, nor as to the purposes for which, or the persons to whom, it is distributed.

Mr. Robinson will ask the Home Secretary on Monday what action is at present taken to restrict the wholesale disposal of opium to Chinese and others in our seaports; and whether the purpose of the Pharmacy Act, 1909,

is being defeated by the retail of unlimited quantities of opium to smokers and keepers of seamen's lodging-houses.

ASSISTANTS TO CHEMISTS AND DRUGGISTS (QUALIFICATION) BILL (No. 2).

Mr. W. S. Glyn-Jones, M.P., owing to a slight alteration in the title of his Bill, re-introduced it in the House of Commons on Monday. The full title is now—

Assistants to Chemists and Druggists (Qualification) Bill (No. 2), to make provision with regard to the compounding of medical prescriptions by assistants to persons, firms, or bodies corporate entitled to carry on the business of a chemist and druggist.

The original title was "Assistants to Pharmacists (Qualification) Bill." The second reading is still fixed for Friday, April 3, when it is hoped that an opportunity may be afforded of proceeding with the Bill.

Mr. Glyn-Jones informed our Parliamentary representative that the reason for altering the title of his Bill to "Assistants to Chemists and Druggists (Qualification) (No. 2) Bill was in order to include assistants to companies and firms (in Scotland) who carry on the business of a chemist and druggist, yet who cannot be included in the term "pharmacist." It was desired to include assistants to companies and firms as well as individuals.

THE CELLULOID DANGER AND CHEMISTS.

An interesting discussion on the recent report of the Home Office Departmental Committee on the celluloid danger took place in the House of Commons on March 12 on the second reading of the London County Council (General Powers) Bill.

Sir G. Croydon Marks, in moving the rejection of the Bill, specified the numerous uses of celluloid. He added that the proposal is to make regulations in such a manner that in London alone some 70,000 shops would be placed under new restrictions. During the last eight years, while thirty-six fires had arisen from celluloid, there had been 1,200 fires in connection with oil lamps, and no one proposed to ask that an inspector should go into every house where there is an oil lamp. He presumed that the inspector would have power at any time to enter these premises, examine them, see that the regulations are properly carried out, take away samples, and harass the people by finding out exactly what proportion of nitro-celluloid there may be in the article that is being sold. The Departmental Committee did not consider that the necessity had arisen for making regulations in regard to the storage of celluloid in shops, and they stated that they had searched in vain for evidence that this storage had been attended with serious risk of fire. Further, the suggestion was made that chemists' shops are more liable to give trouble by reason of the number of celluloid articles they deal in, and he should like to point out that the Departmental Committee referred to the evidence of the largest chemist in this country—Sir Jesse Boot—who stated that he has 550 shops where a variety of celluloid articles are stored, and only one fire, and that a small one, could be attributed to celluloid, whereas other fires had arisen from other causes. The hon. member was confident that this House would not wish to do what the Departmental Committee considered it unnecessary to do.

Mr. T. Wing seconded the rejection, and quoted the remark made before the Departmental Committee by H.M. Chief Inspector of Explosives that the accidents are so few, compared with the enormous quantity of celluloid used, as to obviate any need for this legislation.

Mr. W. S. Glyn-Jones also spoke. He said that the County Council brought forward a similar Bill last year, and its provisions in regard to celluloid were as perfect as the County Council, with the assistance of its able officers, could make it. But the House declined to pass that Bill until the whole matter had been considered by a Departmental Committee. Dealing with the Bill from the shopkeeper's point of view, he said there is no person living in London to-day who can say how many retail shops will come within it, because the definition of a store is premises where there is more than 5 cwt. of celluloid. He doubted whether any large departmental store or large retailer could tell what weight of celluloid there is in

the place. Is he to weigh all the handles of knives, all the umbrellas, all the collar-studs, and every imaginable kind of article which celluloid enters into to find out whether he has got 5 cwt.? To lay down such a definition as this shows that those who had drawn up these provisions really did not understand their business. In a similar Bill for the City of London one of the provisions is that every celluloid article must be stamped or labelled "Celluloid." It would be much better for the House to bring in a Bill to deal with the storing of celluloid throughout the whole country, and let the Home Office decide what those regulations are to be. As to shops, on page 7 of the Report it states:

"Accidents in shops, both wholesale and retail, have been very rare, and the danger of a fire arising owing to the presence of celluloid is remote, if ordinary precautions are observed. The bulk of the articles are necessarily kept in packages, and whether the main stock is kept in the drawers or shelves of the shop, or in a stock-room, there does not appear to be any evidence that special danger has attended the keeping of celluloid under such conditions."

Continuing, Mr. Glyn-Jones protested strongly against public authorities doing what they are too fond of doing—bringing in these general powers Bills, putting in these clauses dealing with special interests, and putting these special interests Session after Session to the expense of going upstairs and employing counsel to oppose these particular proposals. It is a grossly unfair thing to do. He strongly objected to an area like London being taken and having these special provisions made for it. Take a great road dividing London from Middlesex. On one side of the road tooth-brushes must be stamped "Celluloid: inflammable." On the other side of the road they need not be. If, he concluded, legislation is needed in regard to the manufacture and possible storage under certain conditions of celluloid, it is the business of Parliament to take up the question and provide that those requirements shall be made universal throughout the country.

Mr. Ellis Griffith, on behalf of the Home Office, said it was the duty of the House to give the Bill a second reading, and he suggested that it should be referred to a Select Committee.

Eventually the amendment was withdrawn, and the Bill read a second time.

Our Parliamentary correspondent adds that among a great quantity of literature—for and against the Bill—which has been issued to members of Parliament is one prepared on behalf of the Fancy-goods Trade Section of the London Chamber of Commerce, in the course of which it is stated that articles made partially or wholly from celluloid include hair-brushes, combs, pin trays and cushions, hair-pins and hair-pin cases, soap-cases, mirrors, sponge-baskets, puff-boxes, tooth-brushes, toilet-cases, and manicure-instruments. In 1913 there were twenty fires from every cause in the shops of chemists and druggists, of which there are over 1,200 in inner London alone, but in the nine years only six fires were traced to the ignition of celluloid goods. Between 1905 and 1913 172 fires occurred in the shops of chemists and druggists in the London area.

MEDICAL BILL.

This Bill, which deals with the election of direct representatives of the General Medical Council, was referred to last week. Under the Medical Act, 1886, the term of office of the direct representatives of the General Medical Council is five years; but as the Act does not contain any provision by which a person elected to fill a casual vacancy should continue in office only for the residue of the term of office of his predecessor, the result has been that, instead of one general election of direct representatives being held once in five years, elections of individuals as direct representatives are continually occurring at irregular intervals. As the expenses of the election of a single representative amount almost to as much as elections of several, the burden on the General Council of expenditure on elections has been largely increased. The object of this Bill is to remove this defect. The Bill also removes the obligation to fill a casual vacancy which occurs less than twelve months from the date of the next general election, and extends the time for holding an election. In many cases only one candidate is actually nominated, but the shortness of time allowed after the precept has been

received from the returning officer makes it necessary to prepare for a contested election immediately, whereby a considerable expenditure is often unnecessarily incurred.

MR. GLYN-JONES AND AN ELECTION OFFER.

Mr. W. S. Glyn-Jones, M.P. for Stepney, who is reported to have recently challenged his opponent, Mr. Walter Preston, "to fight an election on the National Insurance Act only," authorises our Parliamentary correspondent to state that he has had no communication whatever on the matter with his opponent. Therefore, he can only conclude that what he refers to is a statement made in a speech at Stepney three weeks ago, when he said that he was so strong a supporter of the National Insurance Act that he would be prepared to fight the election, whenever it came, on that alone. It was perfectly clear that Mr. Preston had stipulated that it should be a by-election. He could not deny that he had been challenged, and his answer was this:

"In 1910 the people of Stepney made their choice of a representative for the lifetime of this Parliament. They rejected Mr. Preston and chose me. I am not prepared to break my compact with the people of Stepney at the bidding of Mr. Preston."

THE LANCASHIRE INSURANCE CONFERENCE.

Mr. Godfrey Locker-Lampson on Tuesday asked the Chancellor of the Exchequer if he will state what are the names of the Insurance Committees in Lancashire which expect a deficiency in the Drug Fund, and which met at Blackburn on March 6 in order to consider the question of the payment of the panel chemists' accounts, and to make representations to the Insurance Commissioners; and whether the representations they have made can be laid before the House.

Mr. Wedgwood Benn replied that his right hon. friend understood that the Conference decided that it would be premature to make any representations to the Commissioners on the subject of deficiencies until the provisions of the regulations with regard to scrutiny and surcharging had been put into operation and it had been ascertained whether there was in fact any deficiency. No representations have been received by the Commissioners from the Conference.

Mr. Locker-Lampson inquired when it would be decided as to whether there was a deficiency.

Mr. Wedgwood Benn replied that that question would be decided when the accounts are made out.

MANCHESTER PANEL CHEMISTS.

On Wednesday Mr. Montagu Barlow asked if the Chancellor of the Exchequer is taking any steps to deal with the case of panel chemists in Manchester and district, whose accounts have only been partially paid. Mr. Wedgwood Benn replied that he had nothing to add to the replies which he had given to other questions. Sir William Byles asked whether the money due to the chemists did not amount to a national obligation. No reply was given.

THE POSITION OF PANEL CHEMISTS.

Mr. Godfrey Locker-Lampson, M.P., informs our Parliamentary correspondent that he intends to raise the whole question of the panel chemists in the debate on Sir Henry Craik's motion in the House of Commons on Tuesday, March 24. As a matter of fact, the hon. member will second the motion. Sir Henry proposes to call attention to the administration of Medical Benefit under the National Insurance Act, particularly in regard to the provision of sanatoria, and to move a resolution.

NEW ANÆSTHESIA METHOD.—"The Times" states that at a Cambridge laboratory has been evolved a new method of producing anæsthesia, which is safer than present methods in that the risk of heart-failure is obviated. The patient is dosed with urethane first and then chloroformed. So far the experiments have only been carried out on animals.

WOOTTON'S "CHRONICLES."—"Having handled my delightful 'Chronicles' in the spare time (rather limited) of a week, I feel I must say you have given me one of the greatest pleasures of my life. By the way, I had a 'Culpeper's Herbal' given me this morning. Wootton's 'Chronicles' make it doubly interesting, and lend a charm to many an 'ordinary' remedy in every-day use."—So a pharmacist writes.

FESTIVITIES.

A Parke Davis Dance.

THE staff of Messrs. Parke, Davis & Co. had their third and last Cinderella dance of the season at the Imperial Hotel, Russell Square, London, W.C., on Saturday evening, March 14. The affair took the form of a fancy-dress ball, and was a splendid success. Upwards of two hundred assembled at six o'clock, and, save for the usual supper interval, dancing was kept up continuously till 11.30 to music supplied by Mr. Hardy's orchestra. The two M.C.'s (Messrs. H. D. Bowden and O. H. von Holtorp), together with the stewards, were in Court dress, and among the fancy dresses may be mentioned the following: Ladies—Duchess of Devonshire, Quaker Girl, French Student, Moon and Stars, Pierrot and Pierrette, Carmen, Sports Girl, Newsboy, Miss Columbia, French Maid, Gentlemen—Mephistopheles, Executioner, Lloyd George, Pierrot, Clown. During the evening exhibitions of Tango and Maxixe dancing were given by Mr. Stuart Lindsay and Miss Toni Lindsay.

Athletics.

A MEETING of the Perth Pharmacy Athletic Association was held on March 13, when a large number of assistants and apprentices were present. Mr. Hunter, of Fergusons' Pharmacy, Captain of the Football Eleven, was Chairman. In the discussion it was felt that the Association should not confine itself to football, and suggestions are asked for as to what other forms of sport should be recognised. It is proposed to institute a series of lectures during the winter months on subjects bearing on pharmacy. The Football Committee wish to negotiate with other trade clubs having open dates for this season. The Secretary is Mr. James A. Fraser, 29 High Street, Perth.

THE annual general meeting of the Edinburgh Pharmacy Athletic Club was held at 36 York Place on March 16. Mr. E. O. Rowland (President) in the chair. Mr. W. H. Chambers (Hon. Secretary) submitted the annual report, from which it appeared that the golfing section, the bowling section, and the billiards section have all had a highly successful season, but there had been less activity in the sections devoted to cricket, swimming, cycling, football, and rifle practice. The annual sports were well attended, and both from the point of view of athletics and finance the meeting was a success. There has been a distinct improvement in the golfing section since the introduction of the chemists' half-holiday. Mr. J. Douglas Watson (Hon. Treasurer) submitted the financial statement, which showed a credit balance of 23*l.* 6*s.* 9*d.* The report and financial statement were unanimously adopted. Mr. G. F. Merson explained the conditions for conducting the annual golf-match between teams representing the chemists of Glasgow and Edinburgh for the Rainy Brown golf trophy. It is proposed to hold the annual sports on June 10. The following officers were elected for the ensuing year: *Hon. President*, Councillor Dr. George Coull; *President*, J. Cochrane; *Vice-President*, W. H. Chambers; *Secretary*, William Paxton, 21 Comely Bank Place, Edinburgh; *Assistant Secretary*, Alexander Miller; *Treasurer*, William Spicers; *Committee*, Messrs. Davidson, King, Morison, Smith, Taylor, Watson, and Wilson.

Dinners.

ON March 12 Sir Jesse Boot entertained about 150 managers of the Manchester and district staff of Boots, Ltd., to dinner at the Midland Hotel, Manchester. There were also present Lady Boot, Sir James and Lady Duckworth, and Mr. John Boot. Short speeches were made by Sir Jesse Boot and Sir James Duckworth. After dinner an interesting programme was gone through, a most enjoyable evening being spent.

UNDER the chairmanship of Mr. King, the Folkestone and District Chemists' Association re-established their annual dinner at Queen's Hotel there on Wednesday evening, March 18. A party of about twenty-five sat down to dinner, which had been arranged by Mr. Jones, the Hon. Secretary. The guest of the evening was Mr. C. T. Allen (Kilburn), who responded to the toast of "The Pharmaceutical Society" proposed by Mr. Taylor (Cheriton). Dover chemists were represented by Messrs. Ewell, jun., Forster, and Hambrook. Owing to illness many of the senior members of the Association were away.

THE annual dinner of the Harrogate Pharmaceutical Association was held at the Wellington Hotel on March 13. Mr. Geo. Fenn (President) was in the chair, and among those present were Mr. Edmund White (President of the Pharmaceutical Society of Great Britain), Mr. F. Pilkington Sar-

gant, Mr. R. C. Walshaw, and many local pharmacists. After dinner and the loyal toast, the Chairman proposed the toast of "The Pharmaceutical Society," and Mr. White, in reply, thanked the Chairman for the way he had referred to Mr. Woolcock, and agreed that he was "the right man in the right place." The Parliamentary Fund which has been started is to be used impartially, and not for the benefit of any particular political party. The work of the Benevolent Fund was then mentioned, and the company present showed their practical interest by contributing 2*l.* 12*s.* 6*d.* The toast of "The Visitors" was proposed by Mr. Mortimer, and Dr. Dimmock and Mr. Walshaw replied. Mr. F. Pilkington Sargeant proposed the toast of "The Chairman," and Mr. Fenn replied. The speeches were interspersed with songs and recitations by Messrs. Hines, Soar, Parkes, Wilson, Foster, Inman, Sol Taylor, Rogers, Weston, and Mortimer. Mr. G. Winterburn was the accompanist.

THE annual dinner of the Bath Pharmaceutical Association took place on March 18, and was very successful. The President (Mr. John G. H. Hawes) presided, and among those present were the Mayor of Bath (Dr. Preston King), Dr. R. Waterhouse, Alderman B. John, J.P., Councillor A. E. Wilting (Chairman of the Bath Insurance Committee), Messrs. T. Wills (Secretary to the Bath Insurance Committee), W. J. Uglov Woolcock, Forbes Fraser, A. Hagon (Cardiff), W. T. Pritchford (Bristol), J. A. Thomas (Cheltenham), D. A. Evans, W. J. Hallett, H. K. Pryke, and R. Hemingway (Hon. Secretary). Submitting the toast of "The Pharmaceutical Society," Mr. J. Wilson said the Society is doing its best to safeguard and advance the interests of chemists. Mr. A. Hagon, replying, said that whatever might have been said of their shortcomings in the past, the Council prepared the way so that when the time came for action over the Insurance Act they were able to obtain the results they did. He rejoiced that the effect of the Insurance Act in the industrial towns had been to revolutionise the practice of medicine, and he was proud to think that throughout the country there had been no serious complaint against pharmacists. They had done their work satisfactorily and well, and the policy of the Society in keeping up the examinations to a high standard is now bringing its reward. Mr. D. A. Evans proposed "The City of Bath," to which the Mayor and Councillor Jenkin replied. The Mayor said he was glad to see that there were two chemists on the City Council—Alderman John and Councillor Jenkin. Alderman John proposed "The Medical Profession," and the responders were Dr. Waterhouse and Mr. Forbes Fraser, the latter remarking that whatever they thought of the Insurance Act, it had done one good thing—it had ensured the dispensing of medicine being done to a great extent by properly qualified men. Mr. W. J. Hallett proposed "Kindred Associations," and Mr. Woolcock that of "The Bath Association." The President replied, and in turn his health was drunk.

THE Cricket and Swimming Clubs connected with The British Drug Houses, Ltd., held their sixth annual dinner at the London Tavern on March 14, about one hundred being present. Mr. C. A. Hill presided, and Messrs. Alan Francis, R. M. Harvey, Alan Hicks, and W. L. Howie supported him. After dinner and the loyal toast, Mr. R. M. Harvey proposed "Prosperity to the Clubs," congratulating the Cricket Club on the past season's record and their success in the championship. Mr. H. S. Collins (laboratory manager), in responding, acknowledged the generous support of the directors to both clubs. The toast of "The Company" was proposed by Mr. W. J. Goldsworthy in a felicitous speech. He congratulated the directors on the continuous growth of the business and the very cordial relations existing between the employers and employés, a real spirit of co-operation being manifested. The managing director (Mr. Hill), in his reply, expressed the pleasure he and his co-directors felt at the spirit of unanimity which permeates the business, and alluded to the prospects of the bonus scheme which the directors instituted last year for the benefit of the employés. Mr. Hill then presented the prizes for batting, bowling, and for swimming to the respective winners. The musical programme arranged by Mr. E. R. Munyard was much enjoyed, Misses Edith St. Clair Russell, Eva Robinson, Dolly Marsh, Belle Ayres, Geraldine Anness, and Messrs. E. and S. Jerrett, Bert Elliott, and T. R. Knight being the contributors. An unexpected contribution to the programme was afforded by Mr. Collins in the course of his speech, he giving a witty exposition of the Archimidean principle from an incident that happened in Graham Street a few days before. Then, the works electrician, while repairing an oil tank, crashed through a rather flimsy cover into 7 ft. of linseed oil, but, fortunately, was able to grip the edge of the tank as he went under. It needed no such demonstration, Mr. Collins assured the

members of the Swimming Club, to prove that a man cannot swim in oil. He would certainly go to the bottom and might remain there, the sp. gr. of oil being too low to float a human being.

LIVERPOOL ENTERTAINS MR. EDMUND WHITE.

On Wednesday evening, March 18, a complimentary dinner was given at the Exchange Station Hotel to Mr. Edmund White, B.Sc., F.I.C. (President of the Pharmaceutical Society), by the Liverpool Chemists' Association. The company of 140 were received by the President (Mr. Humphreys Jones, F.C.S.), and promptly at 7.30 they proceeded to the banqueting-hall, headed by Mr. White and the Lord Mayor, meanwhile Herr W. P. Bayley's band playing the march, "Bunch of Roses." The scene as the guests took their seats was picturesque in the extreme. Mr. Humphreys Jones took the chair at the top table, and was supported by Mr. White and the Lord Mayor, also Professor MacQueenie (Dublin), Professor Beattie (Liverpool), Dr. Chas. Symes, Dr. Permewan, Dr. Larkin, Dr. Wafer Byrne, Dr. T. Glynn Morris, Dr. W. R. Pierce, Mr. Robert Roberts, Mr. W. P. Evans, Mr. J. H. E. Evans, Mr. J. M. Tallantyre, Ph.C. (Evans Sons Lescher & Webb, Ltd.), Mr. J. E. Jones, Mr. L. Moreton Parry, Mr. Prosper H. Marsden, F.C.S., Mr. John Bain, Mr. G. V. C. Last, Mr. T. F. Abraham, Mr. Percy Overton (R. Sumner & Co.), Mr. Gilbert Saunders, A.I.C., Ph.C. (Ayrton & Saunders, Ltd.), Mr. G. H. Burroughs, jun. (John Thompson, Ltd.), Mr. W. F. J. Shepherd, F.C.S. (Chester), and Mr. R. Cecil Owen, B.Sc. (Chester). The seven spur tables were presided over by Mr. W. F. Laycock (Vice-President), Mr. John H. Robinson (Secretary), Mr. W. Wellings, Mr. Harold Wyatt, Mr. J. Luther Hirst, Mr. C. A. Maries, and Mr. G. R. Tharatt. The following were also present:

G. Wreghitt, H. Wilson, S. Johnston, J. Churchward, George Nelmes, W. G. Quayle (H. Jackson & Sons), C. R. Woods, B. Whalley, F. B. Derriek, J. S. Kenyon, J. H. Egan, Chas. Tunnington, Wm. E. Weddle, J. I. Wickes, Charles Hare (Birkdale), Alfred Seales (Southport), H. F. Gaylor (Parke, Davis & Co.), Thomas Hammett (Waterloo), W. K. Reid, A. T. Blackburn, R. Wilson, J. F. Jones, T. E. Lloyd (Garston), F. R. Smith, W. H. Nicoll, J. G. Freeman, R. E. Lloyd (Garston), Martin J. Hughes, W. Draper, Robert Burnett, W. Scattergood (Bovril, Ltd.), J. McInroy, Robert Rowe (Symes & Co., Ltd.), J. Charles Jackson (H. Jackson & Son), Frank Jones, Harold Lomax, Charles Huxtable, Ph.C., F.C.S., Jas. G. Tringham and W. H. Dowler (Ayrton, Saunders & Co., Ltd.), W. Quayle Nicolle (Thompson & Capper, Ltd.), W. H. Jennings, N. W. Rutter, Edw. B. Davies, W. S. Thompson, Wm. L. V. Millhouse, A. N. Smith, J. R. Steadman, Archer E. Carleton, Geo. W. Attarrel, John Jones (W. & J. Ferguson), A. Lawrence, W. H. Nall, James Pickering Jones, G. M. McLoughlin, A. H. Hunt, Parkin S. Booth, F. W. Dyke, J. L. Hirst, R. S. Paterson (Burroughs Wellcome & Co.), A. W. Ashcroft, J. Seymour Evelyn (Idris & Co.), G. A. Moffat, W. Gill Hodgson, Geo. Inman, Wm. Alfred Jones, Charles Gordon, C. D. Jones, J. G. Wallbridge, V. H. Robson, Harry Hazel, Tom Ashworth, Wm. H. Clubb (W. H. Clubb, Ltd.), P. Boyes, Frederic George, John Bowers, D. H. Evans, S. F. Alder, T. H. Corlett, D. Pryor-Jones, H. H. Marsden, John H. A. Yeo, and F. W. Davis, R. McKer, J. M. Patton, B.Sc., and Geo. A. Redford, G. H. Aris, E. F. Roberts, A. L. Rogers, Geo. J. Kelly, J. W. McKinty, R. Postlethwaite, M. E. Laycock, Thos. M. Lloyd, Ernest Prebble, C. E. J. Sendall (Clay, Dod & Co.), G. H. Cole, William Wyatt, Edwin Highton, John Nicolson, J. A. Cunningham, and Alfred Shaw.

After dinner the Chairman read the following letter from Sir Edward Evans:

Spital Old Hall, Bromborough, Cheshire.
March 17, 1914.

DEAR SIR,—It is with very great regret that my health does not permit of my attending functions at present, and hence I cannot be present at the dinner to Mr. Edmund White. I have had the privilege of knowing Mr. White for many years in connection with the Pharmaceutical Conference, and he has done yeoman service, in one direction and another, to the cause of pharmacy. I am certain that as President of the Pharmaceutical Society he will not only bring honour to himself, but his scientific knowledge, his sociability, and his tact will be enormous benefit to the profession of pharmacy and to the trade, and, through both, to the community at large.

Yours truly,
EDWARD EVANS.

Mr. A. C. Abraham also sent a letter of regret. After the loyal toasts had been honoured, the Chairman submitted that of "The Pharmaceutical Society," coupled with Mr. White's name.

In the course of his remarks, Mr. Humphreys Jones eulogised the work of the Pharmaceutical Council during the time Mr. White has been President. Great progress had been made, and a revolution had occurred in the policy of the Council, consequent chiefly on the Insurance Act. Mr. Jones also spoke of the need of solidarity in the business, and advocated support of the Society and the Parliamentary Fund, the latter because we must have men in Parliament well versed in pharmacy. He also touched upon the organisation scheme and the Benevolent Fund, which

distributes about 3,000*l.* a year. The toast having been honoured, Mr. White rose to reply, and was enthusiastically received. He thanked the Association for the honour they had done him, adding that the Council would be delighted by his reception. He had noted through his travels that all over the country increased interest in public life is taken by chemists. When he knew he was to be entertained, he decided to advertise the Society, as so many doctors were present, so as to let them know the history and aims of the Society, which he described, following this with an account of the evolution of present-day dispensing, the doctor having taken it from the apothecary, who was the pharmacist of his period. The time would not be far distant, he predicted, when the chemist would dispense and the doctor prescribe, each sticking to his own vocation. He advocated that each should show moderation during the process of evolution towards perfection. Mr. White proceeded to mention the objects of the Pharmacy Act, 1868, stating that the Society spends 2,000*l.* a year in educational work, and pointing out how this has the effect of maintaining a high standard of education on the part of those who are registered under the Act to carry on the business of chemist and druggist, including the sale of poisons. He considered that pharmacy graduates are efficient men, and complimented them upon the fact that this efficiency is recognised in Pharmaceutical Service under the Insurance Act. Mr. White also spoke on the present position of chemists under the Act, especially the discounting of their bills, and counselled them to have patience. When the actual deficiency is known the machinery of the Act will be set in motion to get the money that is due, and any damage done would be repaired. He considered that there is too much drugging nowadays, but we are passing through that stage towards more rational medical treatment. The interval between this and the next speech was taken up by Mr. H. M. Ashton, the chemist-actor, of Warrington, who recited "How We Saved the Barge." Mr. L. Moreton Parry next proposed the toast of "The City and Trade of Liverpool," to which the Lord Mayor replied. He said that he had never listened to such eloquent speeches as he had heard that evening. He asked his little girl what he should talk about, and she said: "Tell the chemists, Daddy, about the Lord Mayor's daughter." (Laughter.) The Lord Mayor then gave some interesting facts about the trade and inhabitants of the city over which he presides. Mr. Harold Wyatt then proposed "The Medical Profession," and caused laughter by stating that it reminded him of the epitaph: "Here lies Bill MacGraw, forget his bad qualities and think of his best qualities," adding that, while there is a surplus in the Drug Fund, he did not know that the last applied. (Laughter.) Drs. Larkin and Permewan replied, the former remarking on the extraordinary unanimity shown by chemists in contrast to the medical profession. Dr. Wafer Byrne proposed "The Liverpool Chemists' Association and the Pharmaceutical Committee," to which Mr. G. V. C. Last and Mr. John H. Robinson replied. Mr. Laycock proposed "The Visitors," and Mr. W. P. Evans and Dr. T. Glynn Morris replied. A final toast was to "The Dinner Committee," to which Messrs. Robinson, Wellings, and Lomax replied. There were other recitations by Mr. Ashton and songs by other contributors.

CANADIAN NEWS.

(From the "C. & D." Correspondent.)

PARCEL-POST.—The parcel-post system, which came into force on February 10, is experimental in character and limited in scope. The zone of delivery is twenty miles, and the weight limit is 6 lb.

CARBOLIC-ACID POISONING.—The "Canadian Pharmaceutical Journal" calls attention to the large number of deaths from carbolic acid, many being caused through the use of containers not distinguishable by touch. There is no regulation enjoining the use of distinctive bottles, but the voluntary adoption of such containers is urged, and the Ontario College of Pharmacy has sent out a circular urging extra caution in selling this poison.

SALE OF ACETANILIDE.—A pharmacist in Eastern Ontario has been fined \$5, and costs, for selling "Mathieu's Nerve Powders" without declaring the presence of acetanilide. The powders contained 2.7 grains of acetanilide, and under the Proprietary and Patent Medicine Act any amount over 2 grains must be declared on the label. It is stated that the wholesale packers have accepted responsibility and repaid to the pharmacist the expenses incurred through the prosecution.

Contracts.

Romford Guardians.—Mr. W. S. Steeples, chemist, for drugs.

Eton Guardians.—Griffith & Walden, Slough, appointed chemists.

Whitehaven Corporation.—Sanitas Co., Ltd., for disinfectants.

Darlington Guardians.—Parkin, Ness & Co., for disinfectants.

Bath Guardians.—Corbyn, Stacey & Co., for drugs and surgical appliances.

Forehoe Guardians.—Mr. F. T. Alpe, pharmacist, Wymondham, for drugs.

Beverley Guardians.—Mr. T. M. Steedman appointed chemist for twelve months.

Bridge (Kent) Guardians.—Mr. J. Barron, chemist, for a supply of drugs at 13*l.* 4*s.* 8*d.*

Newcastle-under-Lyme Guardians.—Oxen's, Ltd., chemists, for the year's drug-supply.

Newark Guardians.—Messrs. J. H. Smith & Co., chemists, for the supply of drugs, etc.

Hemel Hempstead Guardians.—Mr. F. Chapman, chemist, for an annual supply of surgical dressings.

Sheffield Guardians.—C. R. Harker, Stagg & Morgan, Ltd., for the supply of drugs for the next six months.

Aylesbury Urban District Council.—Mr. A. G. Wright, chemist, for an annual supply of disinfectants.

Mitford and Launditch Guardians.—Mr. J. S. Dent and Mr. E. Peck, chemists, Dereham, for the supply of drugs.

Hendon Rural District Council.—Society of Apothecaries, for drugs, etc. Burt, Boulton & Haywood, for disinfectants.

Fulham Borough Council.—For annual supplies: Sanitas Co., Ltd., and Thalassol Manufacturing Co., for disinfectants.

Dartford Guardians.—Corbyn, Stacey & Co., Ltd., for drugs and druggists' sundries; Grindley & Co., Ltd., Poplar, for disinfecting-fluid.

Bath Children's Homes.—F. Hancock & Co., Bath, for surgical appliances. Mr. D. A. Evans, pharmacist, Bath, appointed chemist for six months for urgent orders.

Chichester Guardians.—Timothy White Co., Ltd., Jeyes' fluid, at 3*s.* 6*d.* per gal.; carbolic acid, 1*s.* 5*d.* per gal.; cod-liver oil, 7*d.* per pint; and McDougall's liquid soap, 2*s.* 3*d.* per gal.

Southwark Borough Council.—Grindley & Co., Alfred C. Young & Co., United Alkali Co., Ltd., Middleton Bros., and Newton, Chambers & Co., Ltd., for annual supplies of disinfectants.

Ealing Town Council.—For annual supplies: Adcocks, formalin. Burt, Boulton & Haywood, carbolic powder. Forbes, Abbott & Lennard, carbolic acid. Sanitas Co., Ltd., Sanitas and formalin tablets.

Bethnal Green Guardians.—J. T. Smith & Nephew, The Galen Manufacturing Co., Ltd., Medical Supply Association, and J. F. Macfarlan & Co., for surgical dressings. Corbyn, Stacey & Co., Ltd., for drugs.

Tynemouth Guardians.—John Ismay & Sons, Newcastle-on-Tyne, for a six months' supply of hospital drugs, medicines, dressings, etc., at 19*s.* 8*s.* 6½*d.* W. G. McCoull for a half-yearly supply of tartaric acid and carbonate of soda.

Government Contracts.—*Admiralty*: Brunner, Mond & Co., Ltd., Chance & Hunt, Ltd., J. Crosfield & Sons, Ltd., and C. Tennant, Sons & Co., Ltd., for chemicals. *Crown Agents for the Colonies*: Howards & Sons, Ltd., for quinqu. bisulph. *Prison Commission*: Baiss Bros. & Stevenson, Ltd., for drugs and sundries.

Yarmouth Guardians.—Mr. T. J. Woodcock, chemist, for the six months' supplies of cod-liver oil at 5*s.* per gal. and 9*d.* per pint; Howards' quinine at 1*s.* 3*d.* per oz.; linseed meal at 19*s.* per cwt.; olive oil at 6*s.* per gal.;

single trusses at 1*s.* 3*d.* each, double trusses at 1*s.* 9*d.* each; and drugs at net prices on the list of The British Drug Houses, Ltd.

Tottenham Urban District Council.—For annual supplies: Burt, Boulton & Haywood, carbolic powder, 2*l.* 13*s.* 4*d.* per ton, and special Ialine fluid, 2*s.* per gal. Adcocks, formalin fluid, 3*s.* 8*d.* per gal.; formalin tablets, 1*s.* 11*d.* a lb. Grindley & Co., carbolated creosote, 7½*d.* per gal. A. C. Young & Co., chloride of lime, 7*s.* per cwt. Sanitas Co., Okol, 2*s.*

Cannock Guardians.—Messrs. Needhams, Cannock, for feeding-bottles, 12*s.* 6*d.*; plain white gauze, 5*s.* 9*d.*; linseed meal, 2½*d.*; turpentine, 3*s.* 1*d.*; vaseline, 7½*d.* Mr. E. A. Fereday, chemist, Cheslyn Hay, for clinical thermometers, 1*s.* 3*d.*; cotton-wool, 7½*d.*; lint, 1*s.* 2½*d.*; tow, 4*d.*; grey wool, 1*s.* 5*d.*; Jeyes' fluid, 3*s.* 8*d.*; castor oil, 4*s.*; cod-liver oil, 4*s.* 9*d.*; olive oil, 6*s.* 6*d.*; methylated spirit, 3*s.* Mr. T. W. Garland, Ph.C., Cannock, for Sanitas disinfectant, 10*d.*; fullers' earth, 3½*d.*; brimstone, 1½*d.*



Postal Address:

C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.

Telegraphic Address: "CHEMICUS CANNON LONDON" (two words).

Telephone Number: BANK 852 (two lines).

INFORMATION WANTED.

Postal or telephone information as to the names and addresses of the agents for or makers of the undermentioned articles is solicited. Please address as above.

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| 159/37. McClintock's dental floss. | 162/594. "Vevera frères" perfumery, etc. |
| 158/73. "Acetic" brand plaster-of-Paris bandages. | 162/63. "Menogen" (a substitute for metal). |
| 160/12. "Putnation" soap. | 162/59. Poudre de Riz "Fleur de Corail Chair." |
| 160/11. "Prima," remedy for catarrh. | 162/590. Blanchard snow-drift. |
| 161/220. Colloin's ankle support. | 162/591. "Fontaline." |
| 160/110 Bristol's hamamelis tonic. | 162/592. Collin's syrup of figs. |
| 164/28. Porous wintergreen plaster (with capicum). | 157/5. "Bux" (in 2-oz bottles and 7-lb. tins). |
| 164/29. "Crystalpur" (to prevent steaming of glasses). | 162/44. Nurse Cross breast-protectors. |
| 164/17. Dr. Chavam's pills. | 164/35. "Carliso"—a composition of soft soap. |
| 162/593. "Nip Nip" nail-clippers. | 165/45. "Entomectine." |
| | 164/55. Dassurin (Hyracum). |

INFORMATION SUPPLIED.

Inquiries in regard to the following articles have been answered. The information will be given to others who send a stamped and addressed envelope for it to the above address.

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| Acetic acid, British makers (for Holland), 162/52 | "K. & O." nasal douche, 164/20 |
| "Bilton" hair-dyes, 162/3 | Kenrick's coffee-mills, Lintine, 153/72 |
| Bristol's preparations, 160/110 | "Lyzo," for dogs, 162/591 |
| Cocoa-butter (in five-case lots), 162/56 | Microphones, 162/47 |
| Créseptone, 164/29 | "Mira" atomisers, 160/29 |
| Creta preparata (in ton-lots), 158/33 | Ohlendorff's "Phosphorine," 156/36 |
| Dick's chillifuge, 159/3 | Orangewood sticks, 158/33 |
| Dog shampoo-powder, 157/5 | Paper cups and bottles, 164/34 |
| Erasin tablets, 162/45 | Radior pads, 153/45 |
| Eye-douches (glass) with rubber bulb, 164/27 | Rawleigh's mountain-herb liniment, 157/502 |
| "Eze" metal-polish, 157/500 | Terrar (tin oxide substitute). Tonorio, 160/111 |
| Formidin, 162/46 | Vale's "Krekodyne Pills," 155/71 |
| Glyco-phenique (Declat), 160/34 | Veedee vibrators, 162/64 |
| Goddard's cloth-balls, 155/22 | Wilkinson's sarsaparilla, 159/1 |
| Ingluvin, 159/300 | |
| Invigorine, 157/501 | |

OBSERVATIONS AND REFLECTIONS.

By Xrayser II.

"Contract"

is almost as sacred a word as "property," but it may be overstrained, and there are contracts and contracts. As Mr. Asquith says, the Manchester chemists contracted to dispense under the Insurance Act, but they did so relying on the repeated assurance of Government officials that the sum set apart for the purpose was amply sufficient. And it was a case in which the contracting parties were not in any sense equal. The chemists had virtually no option but to accept the terms offered them, and in the nature of things they had to take them largely on trust. Refusal meant the certain loss of much of their former business, and they were partly at least influenced by a feeling of loyalty to their craft and to the public interest. That the terms proved to be in their case inadequate is not even alleged to be their fault, and the fact that they are adequate over the country generally justifies their acceptance of them from a business point of view. Their special circumstances are due to causes they could not foresee, against the possibility of which it might reasonably be urged that Government ought to have safeguarded them. If, as there is reason to believe, they are due to an attempt on the part of certain doctors to embarrass the working of the Act, their claim on Government for the most generous treatment in an exceptional difficulty is strengthened, but, in any case, to thrust the word "contract" in their face is worse than "impolitic," it is unjust.

Mr. Owen's Afterthoughts

would be none the worse if he combined a little more forethought with them. It seems to me that some of his proposals would prove unworkable and others mischievous, and I suspect that the elaborate specialisation proposed for conference delegates might be condemned on both counts if it were to be tried. Such a nice adjustment of representation to local conditions would tax the powers of a Courtney, and, if it were possible, the result would probably be confusion rather than simplification. We do not want a constitution that would divide, but one that will unite us. I see no reason why chemists not actually on the panels should be regarded as "meddlers" if they interest themselves in Insurance work, or why such interest as they take in it should not work for good. We are one body, though different parts have different functions, and in our dealings with public questions we should all act together. What Mr. Owen urges on this point is not easily reconcilable with his demand for a trade union of pharmacists. In one breath he bids us range ourselves in two apparently hostile camps; in the next he calls on us to stand together. No pharmacist really has any interest that is not the interest of all pharmacists, and if a conference means anything it surely means the bringing together and comparison of all shades of opinion and points of view. As for what Mr. Owen says so valiantly about fighting for private dispensing charges for Insurance work, I recommend to him a consideration of your reference to Scylla and Charybdis.

The Grey Powder Case

reported last week has caused me some startling reflections. At the risk of writing myself down a hopeless "back number" I must confess that I had never previously heard of the practice, said to be common, of letting down the strength of grey powder by the addition of sugar of milk; and had anyone told me that pharmacists are in the habit of selling any preparation below its official strength without the knowledge and consent of the customer I should have given the assertion an indignant denial. Grey powder has from time immemorial been the familiar name of *hydrargyrum cum creta*, and is the British Pharmacopoeia synonym. If anything else were supplied in place of that substance it would be distinctly wrong. As to whether 4 grains of

grey powder is too large a dose for a child of two years old, assuming that that was the age, I am by no means convinced that it is. I have always understood that young children can stand much larger doses of mercurials proportionately than adults, and I would not hesitate a moment to give a child of two 4 grains of grey powder. At the same time, if the defendant had clearly stated his doubts and explained what he proposed to do, no case could ever have been taken. The fact that his grey powder in bulk was found of full strength was entirely in his favour.

The Salts of Emetine

have sprung into popularity in a truly remarkable manner, but it is just possible that the sudden rise in prices may lead to such an increase in the growing of *ipecaquanha* that the supply of emetine will soon be more than equal to the demand; then there may be a decline. It seems that the secrets connected with *ipecaquanha*-growing are very carefully kept. Attempts have been made to introduce the plant into sub-tropical climates where it would be likely to flourish, but for some reason these have not been successful. The failure of many rubber ventures has led to a search for other likely crops, and attention has therefore been focussed on *ipeca* as affording good prospects.

Germany's Chemical Industry

has been increasing by leaps and bounds, and if she goes on at the present rate there seems little doubt that she will soon become the leading nation of the world in this particular branch. For the rapid development there can be little doubt that Germany owes much to the encouragement given to trained scientific workers, and while we in this country are beginning to take heed, there would seem to be much leeway to make up before we can hope to rival our Continental cousins in the way in which they provide for the technical education of their young men and utilise their services after they have been educated. It is said that in this country B.Sc.s are as plentiful as blackberries, and just about as cheap, and if the statement be true it is a sad reflection on our captains of industry. I have myself been asked to use my influence in favour of B.Sc.s, and have been surprised at the way in which the market is overcrowded with the commodity.

The Medical Lore of the Druids,

like everything connected with Druidism, is a difficult and an obscure subject, about which little is certainly known. Much of what has been written concerning it is repetition of old hearsay, much more is pure conjecture, and a good deal may probably be set down (as Camden says) to invention. The sources of real knowledge are very few. Cæsar's account of the Druids is the most circumstantial of any, but so far as I remember he says nothing of their medical practice, and besides what is told us by Strabo and Pliny nothing of importance is known. Even they depend largely on the reports of others. The Druids, as Cæsar tells us, were not communicative, and they committed nothing to writing. From Celtic sources we learn even less than from classical, for what we gather from them is purely legendary, and the earliest MSS. date, I believe, from the twelfth century. Folkard, whose "Plantlore" is a storehouse of information, refers to Mr. W. W. Reade's "The Veil of Isis; or the Mysteries of the Druids" for most of what he tells us on this subject; but, judging from the extracts he gives, I should say that this work must be taken with a liberal allowance of salt. The plants which Folkard associates with the Druids are the oak, apple, and rowan trees, the mistletoe of the oak and apple, selago, trefoil, vervain, samolus, and "Belinuncia." What the last two were I cannot say. Linnaeus gave the name *samolus* to one of the *Primulaceæ*; *Belinuncia* is probably mythical.

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Editorial Articles.

"The Machine is Working."

THIS sentence is the most convincing in the Fabian Research Committee's report on the National Insurance Act, 1911. It is a surprising fact, considering the amount of sand which has been poured into the machine. The Fabian Committee estimates that the first year of the working of the Act will show a deficit of a million sterling, this being what the Sickness and other benefits have cost the Friendly Societies in excess of what they have received from the Government. The Committee does not spare the Government, Mr. Lloyd George, or the Commissioners: all are pilloried. We are reminded, on the other hand, that they do these things better in Germany, which has been as many years at this business as we have been months; yet the margin between English imperfection and Teutonic completeness is very narrow. How long will it take us to bridge the distance? Another Insurance Act Amendment Bill is due this year, and we expect that provisions will be included in it which will give the Commissioners power to realise some of the Fabian aspirations, if not to make the statutory administration perfect. That money is being wasted at present is not questioned by many people. The Act, the Government, and the administration would not be British without that. We haggle over ha'pennies and swagger with sovereigns, and shall continue so to do as long as we know that the easiest way (for a nation) to make money is to spend it—within her borders if possible; anyway, spend it. The Fabian Committee is one-sided when it deals with Medical Benefit. A fifth of its members are medical practitioners, and there is no mention of any pharmacist on it. If we may judge by realising between the lines of the report, the medical part is inspired by practitioners who are more intimate with

uncommon diseases and the exceptional methods of diagnosis than with working-class medical practice. On the basis of the first six, and worst, months the report condemns the medical attendance and treatment provided under the Medical Regulations, frankly stating that they are not what Mr. Lloyd George promised; also that insured persons are deprived by regulations of something that the Act provides. We are not prepared to endorse these allegations, for the Commissioners have been conspicuously fair in interpreting the Act in respect to all its provisions, these including the monetary provisions, within which and the terms of the Act ordinary medical treatment has to be given. In no instance does the Fabian Committee specify any treatment or appliance unprovided by the Act which is anything but extraordinary for doctors to give without extra payment in working-class medical practice. It is here that the criticisms of the Committee are most acceptable for improvement, but we fail to see that they can be construed into failure of the Act, which was not intended to be a complete medical provision, but an instalment towards it. One of the most interesting parts of the report is that dealing with panel doctors, the grabbing nature of many of them being exposed, as well as the devices which have been used by doctors in various parts of the country to prevent smooth working of the machine. Panel chemists contrast remarkably well with doctors in this respect. The Committee speaks with cruel bluntness about the "floating sixpence," but has not fully realised that bad medical practice and excessive prescribing in certain industrial centres are almost synonymous. Had the inquiry extended to Scotland, the Committee would have learnt that there are places there where the eightpence has proved more than enough for payment of drugs and appliances. A little more inquiry in England would have shown that there are places here even as good as Scotland in that respect. The Committee has, however, noted the inherent English expectation that a visit to the doctor means a fresh bottle of medicine. The highest conception of medical attendance and treatment is against this inheritance (it is nothing more), and as the Insurance Act continues we think that English practice will approximate to the Scottish. It may not be the best way for panel chemists, but if the panel doctors are to do the best possible for insured persons greater consideration will need to be given to the causation of disease, and less to the treatment of its symptoms. This the Committee puts forward very forcibly, but the Act cannot be stretched to embrace the consultants, specialists, and other high-class means of diagnosis and treatment which are advocated in the report. Probably it can only be done by the establishment of State medicine and the co-ordination and extension of the country's medical departments. The Fabian Society has had something like this on its programme for many years, and to-day it is a less chimerical proposition than it was this time three years ago.

Linseed Oil.

SINCE we reviewed the position of linseed oil in our issue of February 7 considerable interest has been shown both from the consumers' and speculators' point of view. The absorbing power of the market has been surprising, in spite of the fact that the reserve stocks of oil have increased steadily to huge dimensions, both in the United Kingdom and on the Continent. The London official warehouse stocks are now practically 8,000 tons of oil, and those lying in the Paris warehouses are about equally heavy. Yet the most striking feature for several weeks

past has been the comparative scarcity of offers of ready oil on this side, which must be ascribed to these stocks being held in strong hands. There is but little doubt that a very considerable portion of the London stocks is "earmarked" for the execution of the big contracts placed in recent months for soap-making purposes. Possibilities have already been referred to in our columns on the prospect of a big additional outlet for the product for soap-making since the introduction of the hardening process, a development which may be facilitated by the cheapness of linseed oil as compared with other soap-making materials. Market conditions in the course of this year promise to become interesting, as may be already gathered from the recent establishment of a very stiff premium of about 2*l.* per ton on distant shipment. On the one hand, there is an abundance of supplies of both seed and oil now confronting the market, but the excellent demand for the latter has encouraged purchasers of the former on a large scale, both on home and on Continental account. On the other hand, indications point to a notable contraction of seed-supplies later in the year. Not only has the bulk of the River Plate crop already been accounted for (nearly 80 per cent. having been shipped of the prospective exportable surplus), but comparatively small Indian exports are expected this year in consequence of the poor crop conditions, while it is probable that the remnants of the previous crop have been already disposed of, judging from the abnormally heavy Indian shipments recorded since the close of last year. The last Indian crop amounted to 535,700 tons, and the estimates of the coming crop are placed at, roughly, 480,000 tons, which would compare with 641,200 tons two years ago, a shortage of about 60,000 tons. An important point to be considered is that last year (from January 1 to the end of August) about one-quarter million tons of North American seed was shipped to Europe, a contribution which will be missed this year. Moreover, it is now suggested that the United States will have to fall back upon importations to the amount of about 200,000 tons to complete her requirements prior to the next domestic crop. It may be recalled that, whereas the United States during January to August last year imported 65,000 tons, her purchases of foreign seed for the same period in the three previous years were 170,000, 165,000, and 130,000 tons respectively. These arguments strengthen the theory that the prospective supplies over the spring and summer months will meet with keen competition from the leading consuming countries.

The following tabulated figures are interesting, as showing the size of the linseed world's shipments for the last twelve years, together with the extreme figures recorded in each year for London spot oil:

	World's Shipments. Tons.	Spot oil.	
		Highest.	Lowest.
		Per ton. £ s. d.	Per ton. £ s. d.
1902 ...	825,608	33 5 0	21 10 0
1903 ...	1,178,150	25 15 0	17 5 0
1904 ...	1,523,426	18 5 0	13 15 0
1905 ...	1,110,773	20 15 0	14 10 0
1906 ...	1,080,883	23 5 0	19 0 0
1907 ...	1,368,511	28 0 0	21 5 0
1908 ...	1,432,186	24 0 0	25 15 0
1909 ...	1,293,836	32 0 0	20 10 0
1910 ...	1,153,923	46 5 0	31 10 0
1911 ...	1,106,690	51 10 0	33 10 0
1912 ...	1,127,424	47 0 0	25 5 0
1913 ...	1,849,519	28 15 0	22 0 0

It will be seen that, although the world's shipments for 1913 were a long way in excess of the highest previous record in 1904, the price last year was not allowed to go below 22*l.*, whereas it collapsed to 13*l.* 15*s.* in 1904. This

naturally must be ascribed to the fact that the world's trade requirements have been enormously on the increase of late years. Another fact worth mentioning is that linseed oil is now very cheap compared with other descriptions of vegetable oils.

International Opium Conference.

SIR EDWARD GREY has at length fulfilled his promise of issuing in the form of a White Paper the correspondence respecting the second International Opium Conference held at The Hague in July last year. This is a foolscap document of twenty-two pages, and shows in detail exactly how matters stand to-day. It opens with a lengthy letter of instructions from Sir Edward Grey to the British delegates (Mr. W. G. Max Müller and Sir W. J. Collins), which is followed by their Report and a copy of the final protocol of July 9, 1913. It will be remembered that at the first Conference, held in January 1912, twelve Powers signed the Convention for regulating the trade in opium, morphine, cocaine, etc., but that they were not alone competent to carry out the full extent of international co-operation without obtaining the signatures of the numerous other Governments. The chief difficulty, of course, was the danger that the participating Powers might eventually find that they had unavailingly sacrificed their trade interests for the sake of international morality, while outside Powers, on whom no such obligation might rest, had profited by this altruism to advance their own interests, at the same time nullifying to a great extent the object of the Convention. This point is elaborated in the Report in the following manner:

The manufacture of morphia and cocaine might take place in non-adhering countries, and these might be exported without any restrictions imposed by the country of origin. Moreover, existing chemical-manufacturers in adhering countries would probably be prepared to establish works in countries which had not adhered. Apart from the possibility of a transfer of manufacture to, or of a development of existing manufacture in, countries not bound by the Convention, such countries would, under the Convention as negotiated, be open to the unrestricted importation of morphia and cocaine from countries which were parties to the Convention. It would thus be especially easy for manufacturers in adhering countries to use adjacent non-adhering countries as countries of transit, through which their manufactures could be conveyed to the Eastern consumer, while manufacturers in the United Kingdom would also be in a position to utilise Trieste, Fiume, etc., for the same purpose, if, for instance, Austria-Hungary remained outside the Convention.

As regards the effect of the non-adherence of Peru, it has been pointed out that the bulk of the raw material for the manufacture of cocaine is derived from that country, and it is understood that already, without the employment of any specially elaborate pharmaceutical methods, a large quantity of coca-leaf has been submitted to a process of extraction in Peru, and that the extract contained sevenths of the amount of the active principle that is contained in the salt of cocaine ordinarily in use. It would be easy for any firm of druggists to establish a small factory in Peru, which could supply the whole world with the entire quantity of cocaine salts which it was likely to be able to consume. It has been suggested that, as the cocaine-habit is regarded as having effects as bad as or worse than the morphia-habit, the non-adherence of Peru, even if all the European States were to adhere, would leave the evils connected with the export of drugs to the East practically untouched. Any attempt to suppress the illicit trade in morphia and cocaine by united action in the countries of manufacture will thus be seriously impaired, and may even fail, unless all countries which manufacture, or are likely to manufacture, these drugs can be induced to agree to proposals on the lines of those laid down in the Opium Convention.

During the interval between the first and second Conferences, twenty-two Powers out of the thirty-four invited had signed the Convention, and at the second Conference the question arose whether the Convention should now

be ratified and put into force. But on the motion of the British delegates it was decided that this could not be done, principally for the reason that certain countries, such as Austria-Hungary, Norway, Peru, and Switzerland, had not signed. The abstention of Peru alone was considered sufficient to render useless any effort to regulate the trade in cocaine, but that country has since signed. It appears that Greece has refused to sign without stating any reason, while Turkey has refused to take any part whatever in the Conference. Germany and Russia were also not ready to ratify the Convention, although they have signed. In spite of these facts it is claimed by the delegates that matters have advanced considerably, and that a long step has been taken towards the attainment of unanimity. It was decided that the Dutch Government, with the support of international diplomacy, should approach the outstanding nine Powers on the question—viz., Austria-Hungary, Bulgaria, Greece, Montenegro, Roumania, Serbia, Switzerland; Turkey, and Uruguay. This, after the termination of the second Conference, appears to have been done, for by the last day of 1913 all but six Powers signed the Convention, and of these three have declared that they would shortly give their signature. Austria-Hungary, Serbia, and Turkey have not yet responded. We understand that another Hague Conference is to be called which will endeavour to give effect to the protocol, although it is difficult to see what useful object can be served failing the adherence of those who have large commercial interests at stake.

Sale of Diachylon.

NEWCASTLE-ON-TYNE pharmacists have done one of the best things that we have heard of recently, by resolving to stop the sale of diachylon plaster in the lump, or any other form which may be taken internally. They have come to this resolution after hearing from Mr. T. Maltby Clague particulars of the cases of lead-poisoning among women due to diachylon. Mr. Clague has had excellent opportunities in his investigations with Sir Thomas Oliver, M.D., of seeing the damage that is done by diachylon, and he considers that all self-respecting registered chemists should refuse to sell the stuff to anyone. Its legitimate use as a plaster is so trifling nowadays that the public would suffer little inconvenience if they could not buy it from pharmacies conducted under the Act of 1908. Much could be said to justify the course adopted in Newcastle and little against it. We suggest that it should be adopted by chemists and druggists in other towns. They have simply to agree among themselves not to stock the plaster, and thus discontinue the sale because it is being commonly used by women as an abortifacient. Are there any reasons against?

Pharmaceutical Parliamentary Fund.

THIS fund, which was originally run independently of the Pharmaceutical Society of Great Britain, is now taken definitely under its wing, and subscriptions to it are invited by the Secretary of the Society. The objects of the fund have been extended so as to include not only approved candidates for seats in the House of Commons, but to assist pharmacists to take part in local government and public affairs, and to watch and act when pharmaceutical interests are involved in legislative proposals. It was the old Parliamentary Fund which helped to secure the return of Mr. W. S. Glyn-Jones to Parliament, and that has been worth the money. It is not improbable that besides him a pharmacist of another political persuasion may also be a candidate for Parliament, and the Committee administering the fund (which is to be indepen-

dent of the Pharmaceutical Society's funds) will know no politics when it comes to assisting pharmacists to get into Parliament. Contributions should be sent to Mr. W. J. Uglow Woolcock, 16 Bloomsbury Square, London, W.C., as Secretary to the Committee, and remittances should be made payable to "The Pharmaceutical Parliamentary Fund," or bearer, crossed "London County and Westminster Bank."

It is appropriate to mention here that Hull chemists, at a meeting held on Wednesday evening (a report of which comes to us after "Winter Session" has been passed for press), resolved to subscribe a minimum of 5s. per member to the Fund. The opinion was expressed that a Unionist candidate as well as a Liberal should be supported, provided he is a pharmacist.

VETERINARY NOTES.

By a M.R.C.V.S.

Hints on Animal Nursing.

ALL pharmacists who undertake the dispensing of animal medicines should be able to advise their customers and understand what is required to promote the comfort of animals, both in health and sickness. On such questions as ventilation, nursing, warmth, clothing, poulticing, bandaging, and dressing a chemist may often give useful advice. One who understands the signs of health can very readily detect any deviation from the ordinary. Thus an animal in normal health eats up all its food, drinks freely, and makes frequent expulsions of dung and water, and in cattle rumination proceeds as usual. In animals enjoying perfect health the skin should be soft and smooth. If otherwise "hidebound" there is something wrong which requires attention. It may be mentioned here that "hidebound" is not a disease any more than a cough, but a symptom which accompanies many diseases and is often very pronounced in cattle. When an animal is first seen to be ill the first consideration after relieving the pain when necessary, should be to make the animal comfortable on all occasions. If one is handy put the animal in a loose box, see that a good bed is provided, and that ventilation is good. On no consideration increase the temperature of the animal by keeping pure air out, but put on extra clothing and be careful to avoid draughts. The temperature should be taken—it is normally 101-102°—as this is a great help in diagnosis. The pulse also should be taken and a general observation of all movements, respirations, etc.

POULTICES.

When poultices have to be applied such as in founder, it is of great importance that they be of a genial warmth and kept so. Bran is the most common basis used for making poultices for animals; linseed, oatmeal, boiled turnips, etc., are also employed. When a discharge such as pus or any kind of matter impregnates the poultice, it can be kept sweet and fresh and free from smell by adding some charcoal to it, this being of greater value than adding disinfectants. When a poultice is on a part without a discharge it is not necessary to change the poultice oftener than every twenty-four hours or so; it can be kept warm by emptying warm water over it. Water should always be within easy reach of the animal—unless when purgative medicine has been given—by leaving a pailful beside it, which should be renewed twice daily. An easy way of giving medicine, such as fever powders, is by mixing them in the drinking-water. Too much light should never be thrown on the animal's face during severe sickness, but when convalescent more can be admitted as it is much more cheerful and brighter for the animal.

QUIETNESS NECESSARY.

Keep the animal perfectly quiet and peaceful, and if possible let it be attended by only one person or two at the most, one for night and one for day work; and let it be clearly understood that the animal is not to be disturbed by anyone without authority. Noises should not be allowed as these agitate the animal, causing excitability and lessening progress towards recovery.

FEEDING A SICK ANIMAL.

In feeding sick or convalescent cattle food should be given in very small quantities at a time, and when accepted repeated at short intervals. It is often necessary to tempt the animal to eat by giving it dainty morsels in small quantities. Mashcs are usually given; they may be made of bran alone or bran and boiled barley, or boiled linseed. A handful of corn is added as it is an incentive to eating. Salt also given in the mash has the same effect, as well as some spices such as fennel and aniseed. When the appetite is sparse it can be coaxed by trying any of the following, which invariably satisfy at least once and can be succeeded by any of the others: green foods, grass, cabbages, turnips, potatoes, carrots (whole or grated), sheaf of corn or wheat, or barley for a cow, linseed or hay tea, and milk and eggs.

From the beginning to the end of the time of indisposition the animal's clothing should be removed twice daily and the skin thoroughly groomed as far as practicable. Any discharge from the eyes or nostrils should be sponged off, and should it be required the part rubbed with lard or vaseline to prevent excoriation. The bandages must also be renewed and the legs rubbed with wisps of straw. When the animal is first taken out for exercise, extra clothing should be employed, the amount to be gradually reduced according to climate and weather.

Synthetic Sentences.

The subjoined have been received in competition, the result of which we hope to announce next month:

The *Chemist and Druggist Diary*, wherein you "get-up" information in business, is second to none.—A. Crossley (Shaw Heath, Stockport).

It is the *Diary* of the trade, devoted to our needs, and indispensable to all pharmacists.—J. T. Walters (13 Old Street, E.C.).

Read, take notes from, *Diary* to increase your business, and consequently profits from hints therein.—Tom J. Richardson (Edinburgh).

If you would keep your pharmaceutical knowledge up to date, read *The Chemist and Druggist Diary*.—John Raffan (Huntly).

Pharmaceutical products advertised in *Diary* Metol (meet all) requirements; manufacturing chemists should secure, and be Rytol (right all) throughout 1914.—W. Walwin (Gloucester).

England, Scotland, Ireland, Wales are united in praise of *The Chemist and Druggist Diary*.—L. Davies (Enfield Wash).

Chemicals, herbs, elixirs, medicines, inhalers, salts, tinctures, and drugs; reliable, unassailable, good general information; satisfactory tonic.—E. G. Miller (London, W.C.).

Have you a ? Turn not a hair, Inspect this year's *Diary*; Success who tries there.—Matt. B. Widdess, Ph.C. (Limerick).

May good Fellow(ship) with C. & D. Armour us against life's battles.—F. S. Turpin (Newport, Mon.).

Important, reliable, and useful information is always to be found in *The Chemist and Druggist Diary*.—A. H. Molson (Spalding).

Keen buyers, chemists at home and abroad, recognise and appreciate its sterling value.—G. F. Eden (Earlsfield, London, S.W.).

The *Chemist and Druggist Diary* alone is worth the annual charge of 10s.—P. J. Brown (Hayling Island, Hants).

The *Chemist and Druggist Diary* is the busy man's ideal reference-book on all pharmaceutical subjects.—E. Gane Inge (Mundesley-on-Sea, Norfolk).

Accuracy, elegance, and profitable suggestions have established for *The Chemist and Druggist Diary* an unrivalled position.—C. H. Williams (Carrick-on-Suir, Ireland).

Chemist's heavy expenses mean increase. Study the advertisements; *Diary* reference unequalled, giving good ideas stimulating trade.—L. E. R. Surtees (Hull).

For good goods, profitable products, best business, consult the pages of *The Chemist and Druggist Diary*.—Glyn I. Hughes (Mold).

All the latest, for about 2d. weekly, in THE CHEMIST AND DRUGGIST, with splendid *Diary* free.—W. E. Gaze (Highams Park, N.E.).

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale

Ipecacuanha Alkaloids.—Professor O. Keller has completed in the "Archiv der Pharmazie" a communication based upon research on the alkaloids of the root of *Uragoga ipecacuanha*. He confirms generally the conclusions arrived at by Paul and Cownley, and states that emetine, $C_{10}H_{12}N_2O_4$, is a secondary-tertiary base, the molecule of which should contain two methoxyl groups and at least one free hydroxyl group. His experiments on these lines are described.

Vanillin in *Gymnadenia albida*.—According to the "Berichte," XLV., 3432, Lippmann has examined the flowers of *Gymnadenia albida*, an orchid flourishing at Davos, which have a perfume recalling that of vanilla. The bruised flowers were treated with alcohol and ether, and the solution defecated with lead acetate. The filtered solution was evaporated, and from the residue pure vanillin was extracted in the usual manner. Lippmann considers that the perfume of these flowers is developed by the hydrolysis of a glucoside of vanillin.

Nataloin and Homonataloin.—In a paper on this subject, Léger ("Comptes rendus," 153, 185) agrees that the formula for natalo-emodin given by Fischer and Gross is incorrect, and agrees with that of Robinson and Simonsen—namely, $C_{11}H_{10}O_5(OH)(CH_2OH)$. The methyl ether of this body yields a crystalline pentabromo compound. Natalo-emodin is therefore, like aloemodin, a dioxanthraquinonyl-carbinol. By acting on homonataloin with acetic anhydride and sodium acetate Léger has obtained three isomeric pentacetyl derivatives. Homonataloin contains five hydroxy groups, and has the formula $C_{22}H_{22}O_{10}$, and not $C_{22}H_{20}O_{10}$ as previously represented. Nataloin has the formula $C_{22}H_{22}O_{10}$, and contains a pentose as its sugar complex, whereas homonataloin contains the arabinose complex.

Effects of Gases on Plants.—Mr. F. Kidd, in a communication to the Royal Society on March 5, stated that germination of seeds is completely inhibited in an atmosphere containing 20 to 30 per cent. of carbonic acid according to temperature. The seeds germinate at once when removed. Mustard-seed was an exception, the inhibition continuing indefinitely, unless their testas are removed or they are completely dried and re-wetted. Field experiments show that thus action of carbon-dioxide gas may occur in nature, and explain the common occurrence of seeds lying dormant.—M. Coupin studied the effect of vapours on plants by placing wheat-shoots for ten days in an atmosphere saturated with various aromatic vapours. The vapours of essence of star-aniseed and aniseed (the two plants from which absinth is made) kill off the shoots at once; those of absinth, thyme, lavender, bergamot, tansy, rosmarin, and neroli are less speedy, but also fatal; cinnamon, verveine, ylang-ylang, violet, sage, mint, wintergreen, fennel, orange, etc., stop the growth of the plant, but do not kill it; cummin, sandalwood, and iris check growth; patchouli and cloves have no action; tobacco is decidedly injurious.

Chlorophyll and Light.—At the Royal Society's meeting on March 5, Mr. Harold Wager and Mr. C. K. Warner, in communications relating to the effect of light on chlorophyll and chlorophyll extracts, suggested that formaldehyde is a decomposition product of chlorophyll produced in the presence of an organic peroxide. Further, formaldehyde is not the chief aldehyde formed, and the production of aldehyde would be a physical or chemical process, not a vital one. Possibly in the plant the whole phenomenon of the combination of carbon dioxide and water was the result of the decomposition of chlorophyll by sunlight, instead of the decomposition being the result of the chemical combination. It looked as if the chlorophyll when acted upon by light was split up into aldehyde, which might be the basis of the starch and similar products formed, and was then re-formed by means of carbon dioxide. As to its being broken down and re-formed there seemed no possible doubt. Mr. C. K. Warner pointed out that no more formaldehyde was produced in the presence of carbon dioxide than in its absence, whereas none at all was produced unless oxygen was present. On chemical evidence, he argued that the bleaching effect was due to hydrogen peroxide, and pointed out that he had obtained similar results with the plant pigment carotin.

"**VERRA DRY.**"—"Did ye tak' yer husband's temperature as I telt ye tae, Mrs. Purdie?" "I did that, doctor. I borrowed a barometer frae a neighbour, and put it on his chest, and as it said 'verra dry,' I gied him a pint o' beer, and he's gone off tae work."—*The Tatler*.

BIRTHS.

Authenticated notices are inserted without charge.

DUNN.—At 68 Victoria Street, Newton Stewart, on March 12, the wife of James Dunn, dispensing chemist, of a daughter.

FOSTER.—At "Swalecliffe," Station Road, Poulton-le-Fylde, on March 11, the wife of James Foster, chemist and druggist, of a daughter.

MARRIAGE.

Authenticated notices are inserted without charge.

WADE—COOK.—At Tennyson Street, Wesleyan Church, Nottingham, on March 12, John, son of Mr. C. H. Wade, Mount Hooton Road, Nottingham, to Gladys, daughter of Alderman Samborne Cook, J.P., chemist and druggist, Nottingham.

DEATHS.

Authenticated notices are inserted without charge.

CALVERT.—At Stretford, Manchester, on March 1, Mr. Albert Boston Calvert, chemist and druggist, aged forty-four. Mr. Calvert qualified in 1892.

COCKING.—The death is announced from Yokohama of Mr. Samuel Cocking, who was born in England, and went out to Japan in the early 'sixties. He was one of the first to export menthol to this country, and at one time his name was associated with a particular make of the product. He was the first to introduce electric light in Japan and many other European utilities were introduced during his life. He had always been a sincere admirer of Japanese art, and his collection is probably one of the finest in the world.

DUNLOP.—At 67 Cadder Street, Pollokshields, Glasgow, on March 11, Grace McFadyean, wife of Mr. Thomas Dunlop, Ph.C.

MURRAY.—Sir John Murray, K.C.B., F.R.S., who was killed in a motor accident in Scotland on Monday afternoon, was one of the naturalists attached to the *Challenger* expedition, during which he discovered the phosphate deposits in the Southern Pacific. Subsequently he got a Government concession for exploitation of the deposits in Christmas Island and formed a syndicate of less than half a dozen, all of whom became rich. Sir John was born and received the first part of his education in Coburg, Ontario, and was seventy-three on the third of this month.

PARKER.—At Market Deeping, Lincs, on March 12, Mr. John Marshall Parker, chemist and druggist, aged seventy-one. Mr. Parker, who had to retire from business on account of growing weakness about six months ago, leaves a widow. He was a Wesleyan and a member of the Oddfellows' Society, and at the funeral on March 16 the floral tributes were numerous and handsome.

TAYLOR.—At his residence, 86 Woodfield Street, Morriston, Glamorgan, on March 15, Mr. Alfred Taylor, chemist and druggist, aged forty-two. Mr. Taylor was ill for about a week from complications following double pneumonia arising out of a cold. He went to Morriston from Abergavenny twenty-seven years ago as an apprentice to the late Mr. Llewellyn Thomas, chemist and druggist, Woodfield Street. He passed the Minor in 1896. He returned to his former employer soon afterwards, taking over the managership on Mr. Thomas's death, and ultimately acquiring the business from the widow. Mr. Taylor was a bachelor and a Freemason, being a member of the Caradoc Lodge. At one time he was a cricketer of some repute. He was also a keen golfer. He is survived by his father and a brother.

WATTS.—At Chiswick, London, W., on March 4, Mr. Edward Watts, chemist and druggist, aged sixty-six. Mr. Watts passed the Modified examination in 1873.

WILSON.—At 51 Hawthorne Avenue, Hull, on March 13, Mr. George Wilson, dispenser for thirty years to Dr. R. H. B. Nicholson, of Hull.

YOUNGER.—At 13 Battlefield Gardens, Glasgow, on March 12, Mr. Robert Younger, aged seventy-five, formerly with Mr. James Taylor, wholesale druggist, Trongate, Glasgow.

PERSONALITIES.

Authenticated information for this section will be received by the Editor, and published, if not in the nature of advertisement.

MR. THOMAS KAY, chemist and druggist, has been elected Chairman of the Stockport Infirmary.

MR. G. HUMPHREY PIERSON, Ph.C., has been elected Vice-Chairman of the New Barnet and District Tradesmen's Association.

MR. P. J. ASHFIELD, pharmacist, Rhyl, was one of the guests at the meeting held recently in London in connection with the movement for establishing the Federation of Health-resorts.

MR. J. O'GRADY, M.P., has, owing to illness, not attended any public function since the presentation to him by drug-store proprietors last December. He has been in the Bolingbroke Hospital, Leeds, all the time, but is now getting well.

A PORTRAIT OF SIR WILLIAM RAMSAY was on March 18, at the University College, London, presented to the University of London, and at the same time a replica of the painting was presented to Lady Ramsay. Professor J. Norman Collie made the presentation. The portrait shows Sir William in his laboratory surrounded by chemical apparatus. Among those present at the ceremony were Dr. Rudolph Messel (President of the Society of Chemical Industry), Sir Wm. Tilden, Professor A. W. Crossley, and Mr. A. Gordon Salomon (Treasurer of the Institute of Chemistry).

WILLS PROVEN.

MR. WILLIAM SQUIRE, Ph.C., 11 Sussex Street, Nottingham, who died on January 10, left estate valued at 135l.

MR. SMITH WARD, chemist and druggist, Camden Terrace, West Park Street, Dewsbury, who died on January 12, left estate of the gross value of 1,942l. 4s. 10d., with net personality nil.

MR. EBENEZER THOMAS CARRINGTON, chemist and druggist, 23 High Street, Wincanton, who died on January 16, left estate of the gross value of 2,585l. 12s. 11d., of which 1,851l. 18s. 2d. is net personality.

MR. MARCUS WARREN ZAMBRA, Hart Hill, St. John's, Woking, late of Messrs. Negretti & Zambra, optical-instrument makers, who died on February 7, left estate of the gross value of 81,609l. 1s. 2d., of which the net personality has been sworn at 80,197l. 5s. 11d.

MR. EDMUND CLEMENT FRANCIS GREEN, chemist and druggist, 15 Catherine Hill, Frome, who died on January 7, left estate of the gross value of 5,262l. 13s., of which the net personality has been sworn at 4,071l. 14s. 8d. Probate of his will has been granted to his brothers, Mr. Arthur Herbert Green, The Flints Farm, Frome, and Mr. Walter Joseph Green, chemist and druggist, Trowbridge; his nephew, Mr. Herbert John Green, chemist and druggist, 15 Catherine Hill, Frome; and Mr. Arthur Duckett, The Bank House, Frome, to each of whom for the executorship he left 50l. Among the bequests is the stock and the goodwill of his business as a chemist to his nephew, Herbert John Green.

DR. G. T. GOLDIE, speaking in Edinburgh last week, said that there is at this time in London a plague of all known diseases ending with "itis"—everything is due to pyorrhœa, and out the teeth had to come in bushels.

THE LATE THEODOR PECKOLT, the authority on the botany of Brazil, is the subject of an appreciative memoir in the "Berichte" of the German Pharmaceutical Association, it being accompanied by a good portrait of Dr. Peckolt when he was eighty.

WINTER SESSION

of Meetings of Trade Associations.

Others are reported under "Insurance Act Dispensing" when the subjects pertain chiefly to that Section.

Eastbourne.—A meeting of the Eastbourne Pharmacists' Association was held at the Queen's Hotel on March 10. Mr. W. Price (President) was in the chair, supported by six other members and the Hon. Secretary (Mr. D. Marchant). Conversation took place regarding representation on the Executive Committee of the Local Associations Conference, but it was agreed that the number of elected members, being only seven, did not provide an adequate basis for territorial representation. Mr. J. O. Routly's resignation as Treasurer was accepted with regret, and Mr. F. Temple was elected Treasurer for the remainder of the session. The question of applying to the Insurance Committee for a grant towards the expenses of the Pharmaceutical Committee was next considered. The Secretary said that the Panel Committee thought the pharmacists are in too great a hurry, but application will be made in the future.

Edinburgh.—Thirty members of the Chemists', Assistants', and Apprentices' Association visited the City Observatory, Calton Hill, last week. Mr. Peck, Mr. Fielding, and other members of the staff showing them round. The moon, Saturn, and the twin star Castor were some of the worlds in space that they examined through the fine telescopes.

Great Yarmouth.—A meeting of the Great Yarmouth Pharmaceutical Association was held on March 5. The President and seven members were present. It was agreed to send a subscription of one guinea to the Traders' Association. The President reported having met the Medical Insurance Sub-Committee, and that an agreement was reached to pay the balance of the first quarter's accounts. The annual dinner was held on March 12.

Huddersfield.—A meeting of the Huddersfield Chemists' Association was held on March 17 at the Queen Hotel, Mr. H. E. Spurr in the chair. The question of a contribution to the Pharmaceutical Parliamentary Fund was discussed, and promises were made from the sixteen members present of contributions amounting to 9l. 9s. Among the correspondence was a letter from Mr. Woolcock with reference to the new organisation scheme, to which cordial approval was given.

Hull.—See p. 51 for a note on the meeting of March 18. Mr. Staning stated that panel chemists' accounts are to be paid in full on April 12.

Keighley.—A meeting of the Chemists' Association was held on March 11, the President (Mr. F. Gill) in the chair. Mr. G. Turner described by means of racy anecdotes of personal experience the delights of spending a day or half-day at the back of a gun in a district where wild game is to be found. Mr. J. W. Lambert, Oakworth Road, Keighley, was elected a member.

Leigh (Lancs.).—The monthly meeting of the Leigh and District Chemists' Association was held on Thursday, March 12, Mr. J. Wallwork (President) in the chair. Mr. E. W. Woodward (of Boothstown) was elected a member. In response to the appeal from the Pharmaceutical Society for the proposed Parliamentary Fund, it was decided that each member be asked to contribute 2s. 6d. A conversation took place on the first quarter's Insurance prescriptions held up for payment, but no resolution was come to.

Leith.—A meeting of the Leith Pharmacists' Association was held at the Queen's Hotel on March 17. Mr. Noble presided. The evening was devoted to discussing matters affecting chemists under the National Insurance Act.

Liverpool Optical.—A meeting of the Liverpool Optical Society was held on March 11, when Mr. J. G. Wallbridge, F.S.M.C., gave a lecture on *Ophthalmometry*. The principles and essential parts of the ophthalmometer were explained, and the variations introduced into the different patterns of the instrument. The lecturer then showed the working of a Javal-Schiotz ophthalmometer, the value of the instrument being due to the ready manner in which can be located the two meridians of greatest and least curvature in corneal astigmatism. The final correction must be made with the test-types and test-case. A discussion followed, and Mr. Wallbridge was thanked.

London (S.W.).—The first annual report and balance-sheet of the South-West London Pharmacists' Association has been issued in the form of a booklet, which contains also the rules and lists of officers and members. The annual report reviews the various business and social meetings held since the foundation of the Association on October 9, 1912. The accounts show that 131 members have paid their

subscriptions, and that at the end of the year there is cash in hand 20l. 4s. 7d.

London Assistants.—At the meeting of the Chemists' Assistants' Association held in the Bonnington Hotel, Southampton Row, London, W.C., on March 12, *What is the Most Profitable Side-line for a Pharmacist?* was under discussion. Mr. E. Thompson, the first speaker, favoured optics. Mr. E. M. Haslam thought that a hobby might often be the basis of a profitable side-line, such as bee-keeping and the breeding of dogs. In regard to photography, it was agreed that this is a profitable undertaking, provided it is properly carried out with suitable accommodation and assistance provided. Mr. J. Noble urged the desirability of catering for the supply of surgical and medical requirements to the medical profession; he thought that such work should be part of the pharmacist's business, but in the majority of cases it was allowed to drift into other channels.

London (W.).—The meeting of the Western Pharmacists' Association at the Restaurant Frascati on March 18 attracted an attendance of about fifty members. The President (Mr. J. D. Marshall) occupied the chair. The subject for the evening was an *impromptu* lecture by Dr. S. H. Browning on bacteriological topics, ranging from the means of "spotting" pathogenic organisms to the phenomena of anaphylaxis. In connection with the diagnosis of syphilis, Dr. Browning remarked that Noguchi's "luetin" test had not met with the recognition it deserved. Of two hundred tests by this method in parallel with the Wassermann reaction, agreement was obtained in 90 per cent. of the cases. Where "luetin" recorded a negative result and Wassermann reaction a positive, it is probable that the former is correct. Dr. Browning also detailed the methods of sterilisation by moist and dry heat, and filtration through porcelain or kieselguhr candles. He said fractional sterilisation (usually on six consecutive days) at 58° C. for one hour is being used more and more for the preparation of vaccines, especially sensitised vaccines. The latter, despite the danger attending the use of living organisms, were gradually gaining favour, and would probably come into much more extended use. In connection with candle filtration, Dr. Browning mentioned that Doulton porcelain candles have pores as minute as the Chamberlain filter candle, but filter as quickly as the Berkefeld kieselguhr filter candle. A cordial vote of thanks was accorded to Dr. Browning.

Middlesex. A meeting of the Executive Committee of the Middlesex County Pharmaceutical Association was held at 17 Bloomsbury Square, London, W.C., on March 11. A letter was read from the Pharmaceutical Society relating to the discontinuance of the office of Divisional Secretary in accordance with the new scheme recently adopted at the Conference of Local Association Delegates. Arising out of this, the District Associations in the county were recommended to consider the desirability of appointing district officers for their respective localities, and to communicate their nominations, if any, to the Secretary of the County Association. The Secretary was directed to write to the secretaries of the District Associations in the county, urging them to impress upon their members the immediate necessity of supporting the Pharmaceutical Parliamentary Fund. It was reported to the Committee that Mr. Herbert Skinner (Secretary of the North London Pharmacists' Association) is willing to stand as a candidate at the forthcoming election of members of the Council of the Pharmaceutical Society. It was decided to recommend all the members of Pharmaceutical Associations in and around London to support Mr. Skinner.

Newcastle-on-Tyne.—A meeting of the Newcastle-on-Tyne Pharmacists' Association was held in the Hôtel Métropole, Clayton Street West, on March 11. Mr. E. T. Maltby Clague in the chair. An interesting lecture on "Tuberculin: Their Preparation and Standardisation" was given by Mr. Frank Curry, and the lecturer received a vote of thanks. There was a good attendance.

Oxford.—The annual meeting of the Oxford Chemists' Association was held on March 11 at the Golden Cross Hotel, Oxford. Mr. H. Oddy (President) occupied the chair. Mr. F. L. Loxley was elected a member. Before proceeding to the business of the meeting, the President, in the name of the Association, made a presentation to Mr. H. C. Goodall (the Secretary), as an acknowledgment of his services to the pharmacists of the city and county of Oxford. This took the form of a silver rose-bowl, a silver cigarette-case, and for Mrs. Goodall a silver bonbon-dish. The rose-bowl bore the date and an inscription recording the appreciation of Mr. Goodall's work. The Secretary, in thanking the members, said the work had been done gladly, and he hoped, to the benefit of the craft. He acknowledged the assistance he had received from his partner, Mr. John Dolbear. Mr. C. Bellamy (Druce & Co.) acted as organiser of the presentation fund, to which practically

every pharmacist in the district had subscribed. The Secretary then presented the eighteenth annual report, which gave an account of the work of the Association during the past twelve months. The membership is twenty-seven, of which fifteen are city members and twelve are in business in the county. The financial report showed a balance in hand of 16l. 2s. 1d. The annual report referred to the working of the National Insurance Act, and stated that the Act has increased enormously the professional work of the pharmacist. Both the county and county borough have set up a record among the Insurance Committees for promptness in paying the chemists' accounts, and paying them in full. For example, accounts for the quarter ended January 11 were settled in full on January 27. In August last the London "Prescriber's Pharmacopœia" was adopted by the medical men, only to be succeeded six months later by the "Oxford Panel Pharmacopœia," compiled by three local doctors. The total number of prescriptions dispensed in the city of Oxford during the first year was 35,956, at a cost of 1,152l. 1s. 10d.; the number in the county was 29,932, at a cost of 898l. 13s. 11d. Appreciation was expressed of the services rendered as Divisional Secretary by Mr. John Burbank for several years past. The report was adopted. The following officers were then elected for the ensuing year: *President*, Mr. J. Burbank; *Vice-Presidents*, Mr. S. Clegg and Mr. H. Oddy; *Secretary*, Mr. H. C. Goodall; *Committee*, Messrs. Bellamy, Clayton, Dolbear, Gunstone, Neave, and Ransom. A vote of thanks was passed to the retiring President. The question of the Pharmaceutical Parliamentary Fund was discussed, and it was decided to make a grant of five guineas to the Fund.

Paisley.—A meeting of the Paisley Pharmaceutical Association was held in the George Temperance Hotel on March 12. The President occupied the chair. Mr. Tom Baird, F.R.M.S., gave a lecture on *Miniature Marvels: Revelations of the Microscope*, illustrated by the aid of the lantern. The attendance of members was large.

St. Vincent Association.—At the annual meeting of this Association Mr. Henry Lewis (Allen & Hanburys, Ltd.) was elected *President*; Mr. G. Duncan Bowie (Duncan, Flockhart & Co.) and Mr. F. W. Abbott (G. van Abbott & Sons) *Vice-Presidents*; Mr. H. B. Everson (Hopkin & Williams, Ltd.), Mr. H. E. Curtis (Walton & Curtis), and Mr. Harry Hickey (Parke, Davis & Co.) to be members of the Committee; and Mr. J. R. Bailey was re-elected *Hon. Secretary*. On and after March 26 Mr. Bailey's address will be 11 Cosbycote Avenue, Herne Hill, S.E.

Southport.—A meeting of the Southport Pharmacists' and Assistants' Association was held on March 10 at the Clyde Café. Mr. Hare (Vice-President) was in the chair. It was agreed to join the Lancashire County Federation. The question of the sale of Part I. poisons next occupied the attention of the members, and the opinion was expressed that details of registration should be conscientiously carried out, and further that it is desirable, when these poisons are present in sufficient quantity in tablets or other "elegant" pharmaceutical proprietaries, to come within the statutory limit requiring registration for retail sale, such preparations should be put up in bottles of distinctive colour and shape.

West Ham.—The annual meeting of the West Ham Association of Pharmacists was held at Earlam Hall, Forest Gate, E., on March 12. The balance-sheet was submitted and approved. In regard to the election of officers it was suggested that, owing to proposals for reorganisation, the present officers should remain in office. This did not meet with the approval of the meeting, and the election proceeded as usual. The following officers were elected: *President*, Mr. E. Miller; *Treasurer and Hon. Secretary*, Mr. A. H. Cleland. The new proposals for reconstituting the Association were then introduced, but it was felt that the matter was of too great importance to be dealt with during that meeting. The committee was therefore instructed to take the matter up and draw up a report to be put forward at a meeting to be held on the first Thursday in April. The election of the *Committee* was then carried out, and resulted in Messrs. Blades, Evans, Fromow, Johnson, Matthews, Mitchell, and Soper being elected. Mr. Kirkpatrick had polled two more votes than one of the Essex candidates, but as his election made one West Ham member too many on the committee his place was taken by an Essex member, thus making the committee to consist of four West Ham members and four Essex representatives.

The new Russian 30-per-cent. *ad valorem* export duty on platinum came into force on March 14.

DURING 1913 the exports of drugs, chemicals, medicines, pigments, etc., from Japan to Korea amounted in value to 1,551,703 yen.

Insurance Act Dispensing.

A Weekly Record of events and decisions concerning Chemists' interests in Medical Benefit administration and practice.

Panel Chemist Types.



"ANY MOVEMENT
WHOSE OBJECT
IS THE WELFARE
OF THE MASSES
COMMANDS MY
HEARTY SUPPORT."

I.—THE ALDERMANIC.

With my steady-going business and my balance at the bank, With my little street of houses and my municipal rank, I'm a credit to the craft, and my benevolence denotes Just a little self-complaisance and a careful eye on votes.

You'll observe that I'm a person of the Upper Middle Class, And although the lowly scoffer may proclaim the "law a hass,"

This Act, which many laugh at, many bless, and many curse, For the Masses might, in my sedate opinion, have been worse.

The Fabian Society on the Act.

Last July the Fabian Research Department constituted a Committee of Inquiry into the working of the National Insurance Act, 1911, Part I., with Mr. Sidney Webb as Chairman, Mr. H. G. Gillespie as Hon. Secretary, and Miss L. Anson as chief investigator. The Committee consisted of ninety-five members living in England, including eighteen medical men but no chemists and druggists. An interim report was published as a special supplement to "The New Statesman," March 14, and extending to approximately as much print as there is in the literary pages of this issue of the *C. & D.* After an introduction, the report deals in order with:

- (i.) The scheme in force.
- (ii.) The administration of Medical Benefit.
- (iii.) The administration of Sickness Benefit.
- (iv.) The autocracy of administration.
- (v.) The beginning of the fight against tuberculosis.
- (vi.) The administration of Maternity Benefit.
- (vii.) The deposit contributors.
- (viii.) The taxation of the poorest.
- (ix.) Conclusion (with some further proposals).

The report may be regarded as independent and un-biased, and the highest tribute paid to the Act is in an early sentence: "*The machine is working.*" This is no light matter." The report traces the cause of excessive sickness benefit to sickness, real and dominant, although in the earlier months, and still to some extent, doctors too readily granted sickness certificates. The second part of the report is what interests our readers most.

It takes six distinct sections to cover the medical profession—viz.: (a) The panel doctor, (b) the exclusion of serious illness, (c) the shortage of hospitals, (d) the lack of expert diagnosis, (e) the failure to provide a "second opinion," (f) the charges made by the panel doctor. Here are some of the Committee's dicta:

"Taking the medical profession as a whole, no case whatever has been made out against it."

"Insured persons are getting the same sort of medical attendance and treatment that used to be obtained by the average 'club member,' but it falls far short of the 'adequate' medical service guaranteed by the Act."

"There is a distinct shortage of doctors."

"We suggest (1) that it is imperative to come to the aid of the panel doctor, and to require and to make possible a more scientific diagnosis, so as to discover the cause of the patient's symptoms; (2) that the Insurance Committees should therefore be required to take steps to ensure that all the panel doctors within reach of the existing bacteriological, chemical, and physiological laboratories able to make examinations and apply x-ray tests are enabled to make prompt and gratuitous use of them, and are made aware of their opportunities; (3) that the Commissioners should at once ascertain in what areas such diagnostic facilities do not exist, and should call on the local health or county authority promptly to remedy this deficiency; (4) that the regulations for Medical Benefit should, at their next revision, empower the panel doctor, in all cases in which he is in doubt as to diagnosis, to call in consultation a specialist consultant; and (5) that such consultation as to diagnosis might be one of the services to be rendered by the staff of medical referees which, it is understood, the Commissioners will shortly appoint."

Further suggestions are made to the same effect under the "second opinion" section:

THE PROVISION OF DRUGS.

Two pages of the report are devoted to this subject, and there is not a word against the panel chemist from beginning to end. We quote this part practically in full:

"The supply of all the medicines required by 11,000,000 insured persons in England has naturally been a work of some difficulty." [The report states the Act abandoned the supply of drugs by general practitioners and gave this work to chemists, Insurance Committees also allowing supplies of appliances and medicines to doctors for emergencies, and providing for the doctor supplying in rural areas.] "We see no reason to doubt" (continues the report) "that these arrangements, involving a greatly increased payment for drugs and medicines, have, on the whole, worked smoothly. The patients, we believe, seldom have any difficulty in getting what the doctor has prescribed, though they have often to wait some time in the crowd at the chemist's. We have a few complaints of the quality of the drugs, but we have found no confirmation of the suspicion that drugs of defective quality are being supplied. The chemists (whose representatives seem, in the negotiations with the Commissioners, alone to have had at their command the necessary technical knowledge) have apparently done well out of the arrangement, especially those in poor neighbourhoods; though we note that in one Western city one of the best and largest local firms has retired from the contract after a year's experience, complaining that the rates of payment are inadequate to pay for the best possible service."

The first result appears to have been a very large increase in the amount and to some extent also in the variety of the drugs taken by the one-third of the population which is insured. We infer, from such statistics as we have been able to obtain, that the chemists who have come under contract have made up during the year something like 35,000,000 prescriptions, costing about a million sterling. On the other hand, it is rumoured, though we have found no actual proof of the fact, that the sale of patent medicines has fallen off!"

(i.) The Method of Payment.

"We think the method of payment of the chemists . . . is objectionable in principle. . . . The Commissioners have chosen to institute for each Insurance Committee what they call a 'Drug Fund,' not provided for by the Act [the 1s. 6d. and 6d. funds are explained]. Thus the chemists have no assurance that they will be paid for all the drugs and appliances which they have to supply . . . and the doctors have a pecuniary temptation not to prescribe costly medicines or expensive appliances, however much they are required. . . . This somewhat artful arrangement was not in the Bill or any of its successive amendments, and we do not think that Parliament . . . would ever have agreed to it. We think that it is responsible for aggravating, if

not for causing, some of the defects and grievances that have been brought to our notice."

(ii.) *The List of Drugs and Medicines.*

"In accordance with the Act, every Insurance Committee has drawn up, and has now, after a year's experience, revised, the list of drugs for which prices are fixed in agreement with the local chemists. The list of the London Insurance Committee is a lengthy document specifying about 600 separate ingredients, and providing for a great number of extra items. That of the Surrey Insurance Committee extends to sixteen quarto pages. Even from these long lists there are some conspicuous omissions. On the other hand, some of the lists of other Insurance Committees name only a comparatively small number of the commonest drugs, such as are given in the simplest cases. One zealous borough even supplies the panel doctor with a convenient set of the commonest (and most harmless) prescriptions—perhaps as a hint to him to keep within these safe (and economical) lines. We cannot help thinking that the narrow limitation of these lists is unfortunate, as strengthening the prevalent ideas that the Insurance Act only covered the commonplace treatment of simple ailments . . . and that it is the business of the panel doctor with regard to insured persons . . . to confine himself to the least expensive drugs. We believe that there is no warrant for this idea; and we think, therefore, that it would be better if all the Insurance Committees were to adopt, at the next revision of their contracts with the chemists, a list of priced remedies at least as detailed and inclusive as that of the London Committee. We do not see why the whole British Pharmacopœia, which the chemists are supposed to be able to provide, should not be included."

(iii.) *Limiting the Choice of Remedies.*

"We recognise that the Commissioners and the Insurance Committees have usually been careful to avoid any direct and obvious prohibition or even discouragement of costly remedies merely because they are costly. Any panel doctor is free to prescribe drugs not included in the contract list if only he writes his order on a special form or in a special column of the form. But the subtle discouragement of the remedies not included in the list remains. This discouragement has been, in particular cases, more explicitly enforced. Thus the Coventry Insurance Committee, in a circular sent to all the local panel doctors and chemists, in which it was stated that a number of items would not be paid for, adds significantly: 'It is pointed out to doctors that if care be not exercised in the prescription of such drugs and appliances only as are indicated in the current Drug Tariff'—the narrowly limited list of remedies to which we have referred—the 'Drug Suspense Fund' (meaning the 'floating sixpence') 'may become heavily trampled upon'! We have seen no expression of disapproval by the Commissioners of this deliberate attempt to restrict the range of remedies for the illnesses of insured persons; and we are informed that the same sort of influence has been brought to bear, in personal interviews, on the doctors in other counties."

(iv.) *Prohibition of Serums.*

"We find that several Insurance Committees have attempted to forbid the panel doctors from using any serums or vaccines whatsoever; significantly enough, with one exception, that of the diphtheria antitoxin, because this could be obtained gratuitously from the medical officer of health! Other Insurance Committees (such as that of Worcestershire) have rightly taken the other line, and have refused to limit the panel doctor's remedies in this respect. We are glad to say that, in this case, the Commissioners have taken the wider view; and they have laid it down by unpublished letters that 'an insured person is entitled to such drugs as are requisite for him within the scope of the Medical Benefit.' We think this should be definitely laid down by regulation."

(v.) *Prohibition of Nutritious Substances.*

"Another very usual prohibition by Insurance Committees is that of 'all food preparations.' Sometimes a whole list of the commonly advertised preparations so frequently prescribed in cases of debility and anæmia will be forbidden; while in one large city the doctors have been even definitely instructed not to prescribe to insured persons either extract of malt or cod-liver oil! Sanatogen is, for instance, sometimes permitted and sometimes refused—the Insurance Committees apparently cannot make up their minds whether it is fit for insured persons, though many doctors habitually prescribe it for paying patients. We think that definite instructions ought to be issued by the Insurance Commissioners for the guidance of Insurance Committees and doctors on this point, as on some others. They ought not to allow the bias of the 'floating sixpence'

to influence the local decision. There is, of course, some difficulty in drawing a line, from the provision of such food as milk and eggs through all the lengthy series of meat extracts and phosphates up to such indisputable remedies of the British Pharmacopœia as cod-liver oil. Yet, both as a matter of law and as a matter of policy, such a line has to be drawn. What is plain is that it is neither lawful nor expedient to refuse, to the innumerable poor people for whom the panel doctor prescribes, whatever remedies the best physician would order, in like cases, to his paying patients."

(vi.) *Refusal to Supply Drugs to Hospital Out-patients.*

"We have to report an administrative failure, which is resulting in a certain number of the insured persons being deprived of the 'proper and sufficient drugs and medicines' which Parliament has promised them in return for their contributions. At Manchester, and we believe elsewhere, the Insurance Committee refuses to pay for the drugs and medicines prescribed for those insured persons who have been—in accordance with the Commissioners' own regulations—'advised' by their panel doctors to seek, at the Out-patients' Department of the Voluntary Hospital, that medical attendance and treatment which the Commissioners and Insurance Committees refuse to provide for them. . . . The Insurance Committee will not allow the chemists to act on the prescription of the hospital doctor, who is not on the list of those with whom the Insurance Committee has contracted! Thus the insured person is refused both forms of Medical Benefit. . . . We think the Insurance Commissioners should amend their regulations so as to enable insured persons, by whatever doctor they are being attended, to share in the 'supply of proper and sufficient drugs and medicines' that the Act promises to them all."

(vii.) *The Shortage of Funds.*

"Finally, we have to point out that Insurance Committees in some parts of the country are finding themselves unable to meet the chemists' bills. The whole 2s. per head is proving, in spite of all attempts at restriction, in some districts, to be insufficient to pay for the 'proper and sufficient supply of drugs and medicines' which the Act requires them to provide. There was, indeed, every reason to suppose that this would be the case. In Germany, where all administration is very economically conducted, the Insurance authorities have found the cost of drugs and medicines steadily rising, until it now far exceeds the equivalent of 2s. per head. The question now arises, by what authority do the Commissioners set this or any other limit—short of the whole Insurance Fund—to this particular service? There is no such limit in the Act. The chemists, it is clear, will not consent another year to the obligation to make up all the prescriptions that are brought to them in due form if their bills, at the contract prices, are to be cut down. Will the Commissioners revise their regulations and allow more money, or is a further attempt to be made to restrict the quantity or the quality or the range of the remedies to be allowed to the insured person?"

We indicate in an editorial article some of the errors into which the Committee have fallen, and might not have done had a chemist and druggist been on the Committee and had its inquiry not been confined to England. In the next section of the report appliances are dealt with, the Committee strongly animadverting on the meagreness of the Commissioners' list, and on the necessity for supplying, *inter alia*, trusses, elastic stockings, elastic knee-caps, nasal and vaginal syringes, surgical pessaries, various forms of surgical boots, crutches, and even artificial limbs, and (perhaps the most important of all) spectacles. Germany's munificence is contrasted with England's poverty in these matters.

The other sections of the report are good reading, especially when the Committee deal with anything that touches women, such as Maternity Benefit. The "Conclusions" part deals with the following matters: (a) The removal from Insurance of pregnancy and maternity, (b) the removal from the Insurance scheme of the provision for tuberculosis, (c) the removal from Insurance of venereal diseases, (d) the appointment of salaried medical referees, (e) the reform of certification, (f) administrative and constitutional reforms.

Councillor F. J. Robertson, writing to the "Edinburgh Despatch" in regard to this report, says that in Scotland Medical Benefit is adequately administered, with the possible exception of certain remote parts of the Highlands, where the medical service was a greater problem prior to the Act than now.

Organisation Scheme for Scotland.

The following scheme, prepared by the Pharmaceutical Standing Committee (Scotland), has been submitted to and approved by Local Associations and Pharmaceutical Committees in Scotland, and has been adopted:

1. A General Council of Panel Chemists shall be constituted to consist of representatives elected by and from the pharmacist members of the fifty-six Scottish Pharmaceutical Committees, along with two pharmacist representatives elected by the bodies corporate who are Scottish panel chemists, and the chairman and vice-chairman of the Executive of the North British Branch of the Pharmaceutical Society *ex officio*.

2. Each Pharmaceutical Committee having not more than five members, shall elect one representative. Each Pharmaceutical Committee having more than five and not more than ten members, shall elect two representatives. Each Pharmaceutical Committee having more than ten members, shall elect three representatives. There would thus be seventy-four elected representatives of Pharmaceutical Committees, and these, with the two elected representatives of bodies corporate and the two *ex officio* representatives of the Pharmaceutical Society, would constitute a General Council of seventy-eight members.

3. The General Council shall elect from their number eleven members of an Executive Committee, which shall also include the two representatives of bodies corporate and the two *ex officio* representatives of the Pharmaceutical Society, making a total of fifteen, and shall constitute the Pharmaceutical Standing Committee (Scotland), which shall act as the Executive Committee of the General Council of Panel Chemists.

4. The General Council of Panel Chemists and the Pharmaceutical Standing Committee (Scotland) shall hold office for three years. Any representative ceasing to be a member of a Pharmaceutical Committee shall retire from the General Council of Panel Chemists so soon as the Pharmaceutical Committee he represents has elected his successor, and for any vacancy arising in the General Council of Panel Chemists the Pharmaceutical Committee concerned shall elect a representative. Bodies corporate shall elect a representative to fill any vacancy in their representation on the General Council of Panel Chemists and the Pharmaceutical Standing Committee (Scotland). Any member of the Pharmaceutical Standing Committee (Scotland) ceasing to be a member of the General Council of Panel Chemists shall cease to be a member of the Pharmaceutical Standing Committee (Scotland), and the latter shall co-opt a member in his place from the General Council of Panel Chemists. Notwithstanding any vacancy or failure to appoint a representative, the remaining members may act as the General Council of Panel Chemists or the Pharmaceutical Standing Committee (Scotland) as the case may be.

5. The General Council of Panel Chemists shall meet once or twice annually, and may be convened more frequently should occasion arise. A meeting of the General Council shall be convened if a requisition to that effect, signed by a majority of the members of the General Council, is submitted to the chairman of the Pharmaceutical Standing Committee (Scotland), who shall also be chairman of the General Council.

6. The Pharmaceutical Standing Committee (Scotland) shall meet as occasion requires, and a meeting shall be convened if a requisition to that effect, signed by a majority of the members of the Committee, is submitted to the chairman.

7. The proceedings of the Pharmaceutical Standing Committee (Scotland) shall be regularly communicated to each member of the General Council of Panel Chemists so that each Pharmaceutical Committee may be kept in close touch, and all suggestions and communications from Pharmaceutical Committees, or Local Pharmaceutical Associations, or members of the General Council of Panel Chemists, shall be submitted to and be carefully considered by the Pharmaceutical Standing Committee (Scotland). The Pharmaceutical Standing Committee (Scotland) shall make all necessary arrangements to facilitate intercommunication between Pharmaceutical Committees and Local Pharmaceutical Associations, and to secure joint united action.

8. In order to keep Local Pharmaceutical Associations in close touch, it is suggested that the chairman and secretary of each Pharmaceutical Committee within the area of the Association should be *ex officio* members of the Committee of the Local Pharmaceutical Association.

9. The scheme of organisation herein sketched is primarily designed to deal with all matters relating to Pharmaceutical Service under the National Insurance Acts. The general interests of pharmacy, which are frequently inextricably intertwined with questions arising under the Insurance Acts,

will continue to be under the care of Local Pharmaceutical Associations and the Pharmaceutical Society, by both of whom the interests of pharmacists under the Insurance Acts must necessarily continue to have constant and watchful attention and safeguarding. The Pharmaceutical Committees, being official statutory bodies subject to regulations issued by the Insurance Commissioners, while charged with functions and invested with powers of very great and vital importance, will necessarily be limited to such action as is competent within their statutory powers and duties as defined by the Insurance Commissioners. It is therefore essential to maintain close touch and constant co-operation between the Pharmaceutical Committees and the Local Associations, and that both should be in close and constant touch and effective co-operation with the Pharmaceutical Society, which is the statutory representative of British pharmacists, and recognised as such by the Government, by Parliament, by all the State Departments, and by all Local authorities.

10. The territorial grouping of Insurance areas in the original draft circulated to all Panel Chemists in March 1913 might form a good practical basis for periodical district meetings of all local pharmacists for the discussion not only of Insurance Act matters, but also of matters of general Pharmaceutical interest.

11. When questions emerge in connection with Pharmaceutical Service under the Insurance Acts, bearing upon the general interests and legal status of qualified pharmacists as a whole, there might be a joint advisory conference of the Pharmaceutical Standing Committee (Scotland) and the Executive of the North British Branch, to consider how most effectively to safeguard all the interests involved.

It will be observed that the General Council is on a territorial basis, and the following have been duly elected for the territories named:

ABERDEEN.—*County*, John Cruickshank (Bucksburn), John R. Reith (Cults); *Burgh*, W. F. Hay and C. Simpson (Aberdeen).

AIRDRIE, *Burgh*, W. S. Culbert.

ARBROATH, *Burgh*, F. W. M. Bennett.

ARGYL, *County*, S. Lawrence and D. M. Skinner (Oban).

AYR.—*County*, J. L. Buchanan (Irvine), James Chapman (Troon); *Burgh*, M. Meldrum.

BANFF, *County*, James Pirie (Keith).

BERWICK, *County*, J. H. Scroggie (Lauder).

BUTE, *County*, George Hicks (Rothesay).

CAITHNESS, *County*, D. D. Cairnie (Thurso).

CLACKMANNAN AND KINROSS, *Counties*, W. Robertson (Alloa).

CLYDEBANK, *Burgh*, T. Guthrie (Clydebank).

COATBRIDGE, *Burgh*, J. G. Robertson.

DUMBATON.—*County*, A. T. Campbell (Alexandria), J. Weir (Clydebank); *Burgh*, P. Mitchell (Dumbarton).

DUMFRIES, *County*, A. G. Laidlaw (Lockerbie).

DUMFRIES AND MAXWELLTOWN, *Burghs*, J. Fraser (Dumfries).

DUNDEE, *Burgh*, C. Stephen (Dundee), J. H. Thomson (Lochee).

DUNFERMLINE, *Burgh*, D. Gilmour.

EDINBURGH.—*County*, H. Dryerre (Bonnyrigg), W. G. McNab (Gorebridge); *Burgh*, J. B. Mitchell and J. Muir (Edinburgh).

ELGIN AND NAIRN, *Counties*, W. Dallas (Nairn).

FALKIRK, *Burgh*, R. Sinclair (Falkirk).

FIFE, *County*, J. Bisset (Burntisland), T. Yule (Cowdenbeath).

FORFAR, *County*, J. Hutton (Brechin), G. F. Johnston (Broughty Ferry).

GLASGOW, *Burgh*, G. Shiach Kitchin, J. Lennox, and J. B. McVitie (Glasgow).

GREENOCK, *Burgh*, incomplete.

HADDINGTON, *County*, W. P. Wilson (Haddington).

HAMILTON, *Burgh*, Balfour Reekie.

INVERNESS.—*County*, A. Correy and D. Mitchell (Inverness); *Burgh*, W. J. Bethune (Inverness).

KILMARNOCK, *Burgh*, David McNay.

KINCARDINE, *County*, A. L. Wood (Stonehaven).

KIRKCALDY, *Burgh*, J. B. McLaren.

KIRKCOUBRIGHT, *County*, F. Walker (Castle Douglas).

LANARKE, *County*, A. A. Dick (Bellshill), J. Hinkman (Carluke), J. A. Walls (Bothwell).

LEITH, *Burgh*, W. T. Robson (Leith).

LINLITHGOW, *County*, Findlay Stuart (Broxburn).

MOTHERWELL, *Burgh*, Dugald Taylor.

ORKNEY, *County*, incomplete.

PAISLEY, *Burgh*, Hawthorn Stewart.

PEEBLES, *County*, J. D. Walker (Peebles).

PERTH.—*County*, T. Harley (Perth), R. Speedie (Crieff); *Burgh*, J. J. Forbes (Perth).

RENFREW, *County*, D. Hendry (Renfrew), D. Penman (Johnstone).

ROSS AND CROMARTY, *County*, J. F. Hunter (Dingwall).

ROXBURGH, *County*, John Brown (Melrose).
 RUTHERGLEN, *Burgh*, D. S. Robertson.
 SELKIRK, *County*, J. Henry (Galashiels).
 STIRLING, *County*, R. G. Drummond (Falkirk), R. Marshall (Grangemouth); *Burgh*, J. Duncannon (Stirling).
 SUTHERLAND, *County*, J. Mennie (Golspie).
 WIGTOWN, *County*, W. Ker (Stranraer).
 WISHAW, *Burgh*, R. D. Anderson.
 ZETLAND, *County*, A. L. Laing (Lerwick).
 REPRESENTATIVES OF BODIES CORPORATE.—James Bell, St. Cuthbert's Co-operative Association, Ltd., Edinburgh; William Cox, Boots Cash Chemists, Ltd., Glasgow.
 EX OFFICIO MEMBERS.—J. P. Gilmour (Glasgow), Chairman of the Executive of the North British Branch, and William Giles (Aberdeen), Vice-Chairman of the Executive of the North British Branch.

Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Winter Session.

Bath.—The Insurance Committee were informed on March 12 that the Pharmaceutical Committee had asked for monthly payments to the chemists in future. It was decided to pay persons on the list of chemists each month either the sum of 144*l.* (i.e., 90 per cent. of one-twelfth of 2,040*l.*, the estimated amount available for drugs and appliances during the year), or a sum equal to 90 per cent. of the actual bills delivered for the month, whichever sum be the less. Payments were passed amounting to 197*l.* 3*s.* 9*d.* for chemists' accounts in the past medical year. Miss Grace T. Rennie wrote intimating her resignation from the Pharmaceutical Committee and the panel through a breakdown in health. It was stated that Mr. J. W. Sampson had also withdrawn from the panel, and that the name of Mr. A. E. Mills had been added. The number of insured persons in this area on January 12 was 21,374.

Birmingham.—Local panel chemists met on March 11. In a general report on Insurance matters it was incidentally mentioned that the drug-bill for the past year had exceeded the money available. It appeared also that for some time past the Pharmaceutical Committee had been pressing for payment of chemists' accounts. In regard to the first three quarters cheques were received in two instalments equal to 30 per cent. and 20 per cent. of the totals due. After considerable agitation and complaining, the Insurance Committee about a month ago informed panel chemists by circular that they would be paid 80 per cent. of the amount due for the last quarter, and that the remainder would not be sent until the Committee had been able to settle their accounts for the whole year with the Commissioners. A resolution was passed calling the attention of the Insurance Commissioners to the injustice to chemists caused by the long delay in making their final allocations of payments, and asking them to do all that lies in their power to expedite this. Insured persons have had 963,000 prescriptions, costing 33,400*l.*, during the past year—roughly, three prescriptions each. The payments to chemists so far amount to 27,600*l.* A discussion on extravagant prescribing ensued, an instance being given of one patient having twenty-two bottles of mixture costing 3*s.* 9*d.* Evidence was also produced of the great drain upon the Drug Fund caused by domiciliary patients, and efforts are being made to secure an adequate grant from the Sanatorium Benefit Fund.—The "Birmingham Weekly Post" gives illustrations of formidable Insurance prescriptions. For a girl's burns the liniment was 4*d.* and the bandaging 10*s.* It is stated that in another case, where the price should have been 4*d.*, by a mistaken sign the bill ran into many shillings, and it required supplies from four shops to fill the order.

Derby.—At a meeting of the Insurance Committee on Wednesday evening, March 18, the Medical Service Sub-Committee reported having held an inquiry in regard to the recent death from morphia pills dispensed at the dispensary of the Amalgamated Friendly Societies Medical Association. A deputation had inspected the Association's premises, and had found that the staff had recently been increased, and that there is no reason to suppose that the Association are not now providing a sufficient service under the Act. Mr. W. Elmitt, representing the local Pharmaceutical Association, asked for details as to the addition to the staff, and the Chairman replied that it consists of a medical practitioner and a dispenser. To a further question he answered that the Committee were not concerned with the qualifications of the new dispenser, who does not dispense to insured persons. Mr. Elmitt wished the Committee to recognise the desirability of the dispensing at the institution being conducted by a man holding the same qualifications as those of the chemists on the panel. It is a great pity, he added, that a representation to this effect is not being made to the Association. The Chairman

thought the chemists are adopting a wrong attitude in this matter. Later Mr. Elmitt repudiated a suggestion that he was actuated by professional jealousy, and pointed out that a pharmacist's qualifications are far different from those of the Apothecaries' Hall, which the "qualified dispenser" holds. The Chairman ruled out of order a motion by Mr. Elmitt that the matter be referred back to the Committee, and the report was adopted.

Edinburgh.—The Insurance Committee for the burgh has now paid the balances for the four quarters of 1913, this completing the full payments of the chemists' accounts for the first year. The Clerk and Treasurer to the Committee, in sending cheques, says that he has not received from the Scottish Insurance Commissioners the particulars of the provisional credits to be made to the Committee in respect of the Drug Fund, and consequently the amount of the bonus to be paid to chemists on the past year's working has not yet been ascertained. Within the next week or so, however, he hopes to receive the note of provisional credits, and to be in a position to pay the bonus allowed to the chemists. According to several chemists, the payment of the outstanding balance on last year's Insurance accounts has not given complete satisfaction. One pharmacist had something like 7*s.* deducted from the total of a single month. His telephone inquiries to neighbouring pharmacies elicited the fact that other pharmacists had been disallowed to a certain extent also.

Lancashire.—The Insurance Committee have received notice from the Commissioners that all outstanding accounts for drugs of last year—i.e., prior to January 12—must be sent in before March 31.

Leeds.—The "Yorkshire Post" understands that there will be a deficiency of 20 per cent. in the local Drug Fund, representing a shortage of 4,000*l.* Over a thousand prescriptions from about twenty medical men have been referred for examination as regards possible surcharging.

Leith.—The Chairman reported at a meeting of the Insurance Committee on March 12 that the difference between the chemists' accounts and the amounts in the Drug Fund was 371*l.* 8*s.* 8*d.* This will permit of a bonus of 4*s.* 8*d.* per pound on the account. The Commissioners are prepared to sanction the bonus in due course.

London.—A meeting of the County Pharmaceutical Committee was held at 17 Bloomsbury Square on March 10. All the members were present, Mr. J. Keall presiding. A full debate resulted in the Committee's concurrence respecting the scheme for the examination of chemists' accounts by a joint committee (C. & D., February 28, p. 76). The final estimate of the administrative expenses of the Committee for the medical year 1914 was also agreed upon. In regard to payment of accounts for 1914, it was unanimously agreed to make the following recommendations to the Insurance Committee:

(1) That payment equal to 90 per cent. of the value of the account furnished by each chemist or other person in respect of drugs and appliances supplied during the first quarter ending April 12, 1914, be made in advance of the amount due in respect of the supply of drugs and appliances for that period.

(2) That subsequent to April 12 chemists and other persons should be required to render their accounts monthly to the Committee, and that payment thereof should be made as soon as possible, equal to 50 per cent. of the total value of each account.

The report of the General Purposes Sub-Committee consisted of recommendations relating to: (1) Appointment of a sub-committee to meet representatives of the Panel Committee; (2) analysis of medicines supplied; (3) complaints against chemists; (4) complaints concerning "rep. mist."; (5) complaints against doctors directing insured persons to particular chemists; (6) a report on excessive prescribing as basis of discussion at a special conference of the Panel and Pharmaceutical Committees; (7) scrutiny of the panel list of chemists; (8) application of general practitioner to supply medicines, etc. The Committee agreed that items (2), (3), (4), (5), and (6) be left in the hands of the Sub-Committee appointed to meet the Panel Committee. The report referred to under item (6) was fully discussed and amended. Items (7) and (8) were referred back to the General Purposes Sub-Committee. The Committee decided to notify the Insurance Commissioners their desire to retain the present method of electing the Pharmaceutical Committee for the County of London.

Manchester.—The Insurance prescriptions seem as numerous as ever, despite the slackness in ordinary business. As chemists are not getting paid more than 50 per cent. of the current year's accounts, many are feeling the effects of the discounting clause, and finding it difficult to meet the demands from the wholesale firms. These have been lenient up to now, but are now beginning to complain. The new Tariff, which was understood to be quite in order two months ago, is not out yet. Many chemists are asking

"Why?" Stock mixtures and aqueous tinctures are being extensively ordered in some districts, causing still larger stocks to be kept by the chemists. Some paltry devices are being adopted by some medical men to deprive chemists of dispensing-fees. The following is an example: "Ung. zinci 3j., label A.; paraff. molle 5j., label B. A little of A to be mixed with equal quantity of B and used as directed." A South Manchester doctor told a local chemist that he did well out of tablets, but in future he was going to order the drug in powder-form, and direct the patient to take a small quantity in a little water, and do away with the dispensing-fee. In consequence one of his scripts read: "Pulv. acid. acety. salicy. 3ss. Sig.: Take as much as will lie on a sixpence in a little water every four hours." Aq. font., aqueous tinctures, and such methods as above are creating much discontent among Manchester and Salford chemists.

Middlesex.—The County Pharmaceutical Committee met at 17 Bloomsbury Square, London, on March 11, when a report was presented of the conference with the Panel and Insurance Committees on the checking of prescriptions during the current medical year. It is expected that definite arrangements will be made shortly. Full power was given to Messrs. Skinner and Wolff to conduct and conclude the necessary negotiations on behalf of this Committee. Attention was drawn to a circular issued to all the doctors on the panel, and the Secretary (Mr. A. E. Bailey) was instructed to write to the Secretary of the Panel Committee, protesting against the recommendation of "aqua font." on the score of economy. Messrs. Skinner and Wolff were asked to bring before the Joint Checking Committee the question of articles which should or should not be supplied by chemists to insured persons, and to recommend that the Insurance Committee should issue instructions relating to these. Several complaints were considered, and some were referred to the legal department of the Pharmaceutical Society, and others to the County Insurance Committee.

Oldham.—On the basis of the provisional credits it appears from the Finance Sub-Committee's statement issued on March 11 that the Drug and Suspense Funds will only pay 88 per cent. of chemists' accounts, which amount to 7,149l. 19s. 11d. The available fund is 6,237l. 17s. 8d., or a deficiency of 912l. 2s. 3d. There are thirty-nine names on the list of chemists, and the average amount paid to each is 130l. The Chairman of the Sub-Committee (Mr. R. W. Bainbridge), in his remarks, states there ought "to be a discrimination made by the Commissioners between rural and industrial areas." It could not be conscientiously said that there has been excessive prescribing of drugs in Oldham, but there had been revealed a vein of sickness, especially among women workers, apparently seriously underestimated and unheeded until the Insurance Act brought it into prominence. The question of the chemists' shortage is very much to the fore, but he ventured to submit there is not sufficient evidence in Oldham to warrant this Committee taking steps under Regulation 46. There is abundant evidence that the drug allowance should be pooled nationally, or, if that method does not work out right, then more money must be placed at the disposal of the Committees. Something is wrong, and the Commissioners should be asked to face the problem at once, as a set of business gentlemen ought to do, and not allow it to drift. They did not want to see the panel chemists in Oldham financial invalids.

Preston.—The Chairman of the Medical Benefit Sub-Committee (Mr. Wilson), in reporting to the Insurance Committee on March 11 the resolution passed at the Blackburn Conference to put the surcharging regulation into operation, pointed out that the average price per prescription (9.4d.) in Preston is higher than in any other Lancashire town. He believed the onus of putting Regulation 46 into force lay with the Pharmaceutical Committee. Dr. Riggs, in the course of some remarks, said that Preston doctors are being swamped with patients, and there will be a larger demand both on them and on the chemists in 1914. The doctors are getting less than the chemists; in his own practice last year he got 8.45d. per visit. (The cost of each prescription dispensed by chemists is 9.4d.) He submitted that the Drug Tariff needs revision. Dr. Derham and the Chairman also spoke. Mr. Wilson, in reply, said the deficit did not arise altogether through goods supplied; certain extras would not reappear this year—e.g., 1d. for distilled water, and another for copying—these would save 300l. The 2d. dispensing-fee also accounted for part of the deficit, but he did not object to it. If, he added, the chemists were persuaded that over-prescribing had occurred, it was for them to make the charge and lay the information, and no such intimation had as yet been received from them.—We understand that the Pharmaceutical Committee sent a communication to the same meet-

ing of the Insurance Committee, stating that the deficiency in the Drug Fund was largely due to supplying cod-liver oil and malt extract, which should have been charged against Sanatorium Benefit and asking that a sum equal to 5 per cent. of the total chemists' accounts be voted from the Sanatorium Fund to the Drug Fund. Dr. Mooncy pointed out that this explanation of the deficiency was merely an assumption on the part of the Pharmaceutical Committee. The Chairman said the request would be sent to the Sanatorium Benefit Sub-Committee, and in future, in order to protect the Sanatorium Benefit Fund from improper charges, each patient would be supplied with a voucher, to be produced to the chemist and the doctor. They had found, in going through the prescriptions, that in one instance out of seventeen prescriptions marked "S. B." only five belonged to patients who had been granted Sanatorium Benefit.

Roxburghshire.—The Panel and Pharmaceutical Committees have decided to make joint application for 1d. per insured person for administrative expenses. The total sum thus available is about 70l., of which the medical practitioners are asking for half. The Panel Committee approved resolutions from the Pharmaceutical Committee stating that the latter had no objection to doctors dispensing in rural areas where there is no chemist, and being paid for same on a capitation basis. A third resolution considered was as follows:

That the local Pharmaceutical Committee strongly object to doctors in a town or village dispensing for insured persons where there was a chemist. In exceptional cases, however, where the County Insurance Committee may grant permission to dispense to a doctor who resided in a town or village where there was a chemist, that doctor shall render accounts to the Insurance Committee each quarter, and shall be paid on the same basis as a chemist.

The Panel Committee unanimously expressed its disapproval of doctors dispensing for insured persons in a town or village where there is a chemist, and adopted the resolution with the deletion of the words "each quarter."—The County Insurance Committee adopted the above basis on March 16.

Sheffield.—A conference of panel practitioners and pharmacists was held at the request of the Medical Benefit Sub-Committee on March 15. Mr. Jackson (Chairman of the Pharmaceutical Committee) and Messrs. J. T. Appleton and H. Antcliffe represented the chemists. A new form of prescription-book was under consideration for automatically supplying a duplicate. After a prolonged discussion, the chemists' representatives decided that they were unable to agree to the alteration during the present year. (A copying-fee is allowed at present where a duplicate is not supplied.) It was decided to point out to the Insurance Committee that a reduced Tariff was accepted, having in view the present prescription-forms. The meeting agreed to recommend that small quantities of dressings be allowed to panel doctors for cases of emergency, to be obtained by special order forms, and to recommend that the fee of sixpence, as allowed to medical men for first-aid dressings, be discontinued.—Much uneasiness prevails just now among the panel chemists at the undue delay in the settlement of the outstanding balance of 25 per cent. deducted during the past medical year. They had hoped that some 15 per cent. would have been paid over immediately after the end of the year, leaving 10 per cent. to cover any deficit in the Fund. Mr. Newsholme, as a member of the Insurance Committee and the Pharmaceutical Committee, has pressed the Insurance Committee to expedite matters. The latter Committee is unable to act until its funds are finally adjusted, but has appointed a sub-committee of the Finance Committee, with power to act immediately on receipt of the final statement by the Insurance Commissioners.—A prominent notice appears outside a drug-store in the Bramhall Lane district, stating that "National Insurance prescriptions are received here." The Pharmaceutical Committee is on the look-out for any violation of the Medical Benefit Regulations.

Westmorland.—The Joint Services Sub-Committee, in a report to the Insurance Committee on March 4, expressed "strong disapproval of the practice of giving prescriptions marked 'repeat' by medical practitioners; it recommends the Committee to consult the Commissioners as to the legality thereof, and, subject to the legality of the same being established, that chemists and druggists be entitled to charge a fee of 2d. for each such prescription, such fee to be paid out of the Drug Fund." Mr. Vogt, chemist and druggist, Kendal, said the "repeats" are not satisfactory to the patients, as they do not give them freedom in choosing their chemists. The Chairman said the Committee had asked the Commissioners for a ruling on the matter. The accounts showed the only outstanding payments practically were 10 per cent. to chemists. The balance on the Drug Suspense Fund was about 250l.

Athletics.

The Edinburgh Pharmacy United footballers have now ensured their transference from the first division of the local League to the second. The Postmen beat them on March 11 by six to *nil*.

At White Hart Lane, on Saturday, February 21, a football match took place between the Office and Warehouse of Messrs. May, Roberts & Co., Ltd., Clerkenwell Road, London. Despite the weather, which was the worst



THE OFFICE TEAM.

for football this season, a fast and good game ensued, the Office being victors by two goals to one. At a meeting held subsequently it was decided to form a football club from the various players on the company's staff, and we



THE WAREHOUSE TEAM.

are asked to invite secretaries of teams connected with houses in the trade to communicate with this club at the above address as to fixtures for next season. The photographs show the nature of the M. R. & Co. elevens.

PROVENCE OLIVE OIL.—H.M. Consul-General at Marseilles reports that the yield of olive oil in Provence has turned out to be even worse than was expected. A diminution varying from 80 to 90 per cent. on last year has been recorded in some districts. The quality of the oil, however, is generally good.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, E.C., March 19, 6.30 p.m.

THERE are still no signs of a revival in business, which for the most part is confined to current requirements. The price alterations, which have been few, include an advance of 1*d.* per lb. in citrates. Citric acid is practically unobtainable, and in a less degree the same applies to cream of tartar. Tartaric acid has been active for forward delivery. Acetic acid is weak and unsettled, following on the decline in lime acetate. English castor oil is 5*s.* cheaper; new cod-liver oil has been more active at the decline, while the fishing continues good. Copper sulphate is the turn cheaper. Menthol is dull and 3*d.* lower on spot. Opium is about 6*d.* dearer in Turkey, due to native speculation. Anise, caraway, and linseed are steady, canary and cumin firm, fenugreek being lower. Among essential oils, lemon oil is dull and easier inclined to arrive. Bergamot and orange oils are unchanged. American peppermint oil continues firm, and Japanese mint oil dull, with lower prices accepted in auction; star anise is quiet. The following are the principal changes of the week:

Higher	Firmer	Easier	Lower
Citrates	Cassia lignea	Ammonia sulphate	Acetic acid
Citric acid	Ipecacuanha	Camphor	Aloes (Cape)
Hydrastis	(Cartagena)	(Jap. ref.)	Benzoin
Opium	Pilocarpine	Cocaine	(Palembang)
Wahoo	Turpentine	Copper sulphate	Cascara
Wax, bees' (Jam)		Honey	sagrada (auction)
			Castor oil (Eng.)
			Fenugreek-seed
			Jalap
			Menthol
			Mint oil (Jap.)

Cablegram.

NEW YORK, March 18.—Business in drugs is quiet. Opium is steady at \$6.00 per lb. for druggists by single cases. Peppermint oil in tins is 5*c.* dearer at \$3.90. Mexican sarsaparilla has declined to 20*c.*, and hydrastis has advanced to \$4.90. Wahoo bark of root has advanced to 48*c.* Jalap has declined to 12*c.* Cartagena ipecacuanha, cascara sagrada, and copaiba are unchanged.

London Markets.

ACETIC ACID is weak and prices more or less unsettled; 99 to 100 per cent. glacial B.P. is quoted 31*l.*, and 98-per-cent. glacial at 30*l.* 10*s.* per ton ex wharf in carboys, with other strengths at proportionate prices.

ANISE OIL (STAR) is quiet with "Red Ship" brand offering at 5*s.* 11*d.* per lb. spot, and at 5*s.* 1½*d.* c.i.f. to arrive.

ANISEED is steady at 27*s.* 6*d.* per cwt. for Russian and 35*s.* 6*d.* for Spanish.

BALSAM TOLU.—The value of good, free from dross, is from 2*s.* 4*d.* to 2*s.* 6*d.* on spot, with a jobbing demand.

BERGAMOT OIL is unchanged, with quotations ranging from 18*s.* 6*d.* to 19*s.* per lb. c.i.f. for 33 per cent. esters; good brands on spot are obtainable at 19*s.*

A Sicilian report, dated March 14, states that "the artificial life which was brought into the market by taking advantage of momentary requirements does not seem to be permanent, and, in fact, a slacker feeling has prevailed this week, although sellers still maintain their prices."

A Catania advice, dated March 11, states that prices have advanced, as was thought possible. The quoted rates have been paid by exporters and Calabrian speculators, and the large producers are firm.

CAJUPUT OIL is somewhat scarce on spot, with small sales at 2s. 6d. per lb. in original crates.

CALABAR BEANS.—Small sales have been made in Liverpool at 4d. per lb. on spot.

CAMPHOR (CRUDE).—The *Miyazaki Maru* has brought 745 cases from Keelung.

CAMPHOR (REFINED).—Towards the close of last week a good business was reported in Japanese 2½-lb. slabs at 1s. 4½d. c.i.f. and ¼-oz. at 1s. 5½d. c.i.f. for June-July and July-August shipment. In the drug-auction 11 cases Japanese 1-oz. tablets sold without reserve at 1s. 5d. per lb. net, no allowances. Privately, 1s. 5½d. has been paid for 1-oz. tablets on spot.

CANARY-SEED is firm at 92s. 6d. per quarter for ordinary quality and at 110s. to 130s. for good to fine.

CARAWAY-SEED is steady at 26s. to 27s. per cwt. for common to ordinary and at 27s. 6d. to 28s. 6d. for fair to good Dutch on the spot.

CASTOR OIL.—English make is 5s. per ton cheaper at 25l. 15s. in barrels for prompt and 26l. for April-December delivery; pharmaceutical quality is 28l. 5s. in barrels, and 30l. 15s. in tins in cases, delivered free on wharf, London. Belgian firsts for prompt and forward delivery is quoted 25l. per ton f.o.b. Antwerp, prompt and forward.

CHILLIES.—Japanese are quoted from 65s. to 70s. on spot, and for Mombasa 57s. 6d. has been paid.

CINCHONA.—The auction to be held at Amsterdam on April 3 will consist of 1,206 bales and 284 cases, weighing 83,147 kilos. pharmaceutical bark. The amount of manufacturing bark to be tendered for on Thursday, April 2, will be 10,779 packages weighing 949,481 kilos., and containing 55,411 kilos. quinine sulphate, the average percentage being 5.84, compared with 5.95 in February. The first-hand stock at Amsterdam on March 12 consisted of 13,457 packages Government and 55,207 packages private bark. At the London auction on Tuesday 283 packages were offered, and practically all sold at and after the sale at fully steady prices, the average unit being 1¼d.; of East Indian 191 packages offered and about 160 sold, including officialis quilly chips at 3¾d. to 3½d., shavings 3½d., and natural stem chips 2¼d.; of Java 91 bales offered, and 8 sold at 6d. for thin, silvery-red quill. The exports from Java during the first half of March amounted to 450,000 Amst. lb., against 448,000 Amst. lb. in 1913 and 573,000 Amst. lb. in 1912.

CITRATES.—Prices have been advanced by 1d. per lb., making ferri et ammon. citras and potassium citrate 2s. 3d. per lb. in 28-lb. lots, the list-price being 2s. 4d. Sodium citrate is 2s. 5d. in 28-lb. lots, and the list-price is 2s. 6d. per lb.

CITRIC ACID.—Prompt delivery is unobtainable, spot stocks being exhausted, and the market is quite nominal at 2s. 1d. per lb. For April delivery foreign has been sold at 2s. 1d., and English makers are sold out until June, 2s. 1½d. having been paid.

CLOVES.—Zanzibar are steady but quiet, fair of new import offering at 6½d. and old crop at from 6½d. to 6½d.; to arrive January-March shipment has been sold at 6½d. c.i.f., and March-May delivery at 6½d.

COCOA-BUTTER.—Business has been done on the spot at 1s. 5d.

COCOA-LEAVES.—The auction to be held at Amsterdam on April 3 will consist of 2,975 packages Java, weighing 159,816 kilos. A lot of 24 cases powdered green Java sold in the London drug-auction at 3d. per lb.

COD-LIVER OIL.—At lower range of prices a very fair business has been done in new oil at 65s. per barrel, c.i.f., for finest Lofoten quality, which may still be taken as an effective market price. Several Norwegian shippers, however, are not prepared to entertain business below 70s.

c.i.f. New oil on the spot is offered at 70s. ex wharf, and 1913 oil at 65s. per barrel.

Our Bergen correspondent writes on March 16 that the past week's cod-fishing gave very satisfactory results. As heretofore, the Lofoten fishing is not very remarkable, and is now somewhat behind the Søndmoro fishing, but as the weather keeps calm the daily increase of the catch has almost reached one and a-half million, against about one million in the foregoing week. To-day's report gives the following figures for

<i>Lofoten.</i>			
	1912	1913	1914
Catch of cod (milliens)	9.9	2.8	6.3
Yield of c.i.o. (hect.)	7,825	1,780	5,170
<i>Søndmoro.</i>			
Catch of cod (milliens)	7.1	1.5	6.9
Yield of c.i.o. (hect.)	4,600	900	5,200
<i>Total of all Districts.</i>			
Catch of cod (milliens)	35.9	13.7	27.0
Yield of c.i.o. (hect.)	29,050	10,350	22,400
Yield of liver for "raw" oils (hect.)	4,600	3,250	4,500

The market is very quiet, and, according to the price paid for the unrefined new oil, prime 1914 non-congealing Lofoten is quoted at 69s. to 70s. per barrel c.i.f.

The exports from Norway during January and February amounted to 6,164 barrels, against 7,161 barrels during the same period of 1913.

COPPER SULPHATE is the turn cheaper, the usual Liverpool brands offering at 21l. 17s. 6d. to 22l. per ton.

CORIANDER-SEED is slow of sale, at 12s. 6d. to 13s. per cwt. for wormy and at 18s. to 18s. 6d. for sound Morocco.

CREAM OF TARTAR is very scarce for prompt delivery, the values of which are unaltered at 94s. for 98-per-cent. and 92s. for 95-per-cent.

CUMIN-SEED is in better demand, and prices are firm at 25s. to 26s. per cwt. for ordinary Morocco.

DRAGON'S BLOOD.—The *Rhesus* from Singapore has brought 19 cases. Nothing offered at auction.

FENUGREEK-SEED is lower at 10s. per cwt. on the spot for fair Morocco. The price for shipment is 9s. per cwt. c.i.f. terms.

GERANIUM OIL.—Bourbon remains firm at the previously quoted price of 14s. 6d. for April delivery.

GINGER.—The sales of Sierra Leone in Liverpool comprise 50 tons new crop, at 18s. 3d. per cwt. in transit. Small sales of Jamaica have been made at from 37s. 6d. to 50s. on spot for common to good.

LEAD ACETATE keeps steady and unchanged owing to the firmness of pig lead, the current value being 26l. 10s. per ton ex wharf.

LEMON OIL remains flat at from 8s. 6d. to 8s. 9d. per lb. spot, and at 8s. 3d. to 8s. 7½d. c.i.f. to arrive, with the possibility that a trifle less would be accepted.

A Sicilian report, dated March 14, states that, though there have been some inquiries from abroad, actual business with consuming centres continues to be generally very slack. On the other hand, local requirements to provide for the still outstanding contracts for delivery this month begin to give sellers a good opportunity to increase the tension of the market; prices were firmly held during the early part of the week, and pushed up during the last day or so. It seems, however, that this is simply a repetition of what happened last month for the February requirements, and that, unless a good demand sets in from abroad, these local fluctuations will have no lasting influence on the market, especially after most of the forward contracts have been fulfilled, which will be the case by the end of this month.

A Catania report, dated March 11, states that the weather during the past month continued mild, and spring commencing in the lemon-orchard belt with March, danger of frost damage may be considered past. This year's production is now estimated at from 50 to 60 per cent. more than last year's. During February the market rose strongly and suddenly from the lowest point touched early in that month almost to January levels again, but export demand having continued small, prices have declined since the end of February to almost the same level as was reached early in that month. With small export demand and speculation holding off, the market is quiet.

LIME-JUICE.—Good pale raw West Indian is quoted privately at 1s. 7d. per gal.

LIME OIL.—Good West Indian distilled has been sold privately at 1s. 11d. and hand-pressed at 9s. 6d.

LINSEED is steady at 50s. to 52s. 6d. per quarter for good quality.

LINSEED OIL has been firm, and closes at 26s. to 26s. 3d. in pipes on spot and 26s. 3d. in barrels.

A monthly report states that the market has gradually strengthened in all positions. Trade buyers have not followed the rise to any appreciable extent, it is said, although there has been a fair consumptive business. Speculators have been taking hold, and the feeling appears to be gaining ground that we are not likely to see much, if any, lower prices than now quoted for some months. This in view of the fact that, in spite of the huge stocks carried over from last season—which, however, are said to be in strong hands—and heavy arrivals of seed from the Argentine, supplies are being readily absorbed. The views generally held in America are, as previously stated, “bullish,” and it looks as though the present level of prices will be maintained until the early summer, when, if the U.S.A. and Canadian 1914 linseed crops promise well, some easiness may be manifested.

MENTHOL.—Dull. Small spot sales have been made at 11s. 9d. for Kobayashi; to arrive April-May is quoted 10s. 6d. c.i.f. for Kobayashi-Suzuki, and sales of March-May with equal quantity of oil have been made at 14s. c.i.f. The arrivals comprise 10 cases from Kobe.

Very heavy arrivals have been taking place in New York, and while they were upon a comparatively bare market, and a considerable portion has again been taken out of the market, some holders are showing a disposition to force sales.

MILK SUGAR.—Fair arrivals have taken place this week from the Continent. Spot prices are from 58l. 10s. to 59l. per ton, with second-hands offering at slightly less.

MINT OIL.—In the drug-auction seven cases Kobayashi sold without reserve at 4s. 2d. per lb. The arrivals comprise 88 cases direct from Japan, also 10 cases *via* Hamburg.

OPIMUM.—Although little actual business has been done to consumers, speculators have been operating in Smyrna, where the equivalent of 13s. 9d. has been paid for 11-per-cent., which is an advance of 3d. to 6d. per lb. The spot price for Smyrna druggists' quality remains at from 15s. to 15s. 6d. Persian is firm, with small sales at from 18s. to 21s., according to test.

A Smyrna correspondent writes on March 6, reporting a very active week at full figures, the total sales amounting to 99 cases, of which 84 cases are for the U.S.A., eight for England, and the balance for account of Interior and local speculators. Confirmed authentic news has come from all the opium districts reporting heavy damages to the poppy by frost, which news we must give credence to, as all holders of the drug who can afford to do so have withdrawn their goods from the market, and are buying instead to replace what they have already sold. The firm conviction is that as soon as there is a general response to the higher conditions here by the consuming markets, a further material advance will set in. The arrivals in Smyrna are 4,425 cases, against 2,292 cases at same date last year.

A Constantinople correspondent writes on March 14 that the sale of the week were 22 cases druggists' at from ptrs. 205 to 212 and two cases old Malatias at ptrs. 225; in addition, four cases druggists' and eight cases Malatias were exported. After a downward tendency with the sale of five cases at ptrs. 205 at the beginning of the week, caused by the lack of important demand, there has been a revival by a purchase of ten cases at ptrs. 212. This revival was, however, only transient, as everything goes to show that holders will be obliged to give way on account of the more favourable news concerning the new crop outlook. The arrivals in Constantinople amount to 3,363 cases, against 2,437 cases, and the stocks to 802 cases, against 819 cases.

The “Pharmaceutische Post,” under the heading of “Serbian Opium,” states that, after the first opium exports to England, valuing fr. 250,000, from the districts of New Servia have proved satisfactory (morphine-content 11 to 18 per cent., narcotin 2.5 to 3 per cent., and codeine 1.5 to 1.7 per cent., which is especially high), the Servian Government will encourage the cultivation of opium in the districts of Veles and neighbourhood, Stip, Tivkes, etc. The proceeds are estimated at about twenty million francs per annum, but the same would be increased by at least 50 per cent. if a

factory for the manufacture of the alkaloids was erected in the country. [New Servia was formerly Macedonia.—Ed.]

ORANGE OIL remains unchanged at from 10s. to 10s. 3d. per lb. c.i.f. for sweet to arrive as to shipper.

A Catania advice, dated March 11, states that the export demand is quiet, and prices declined about 2½ per cent. during February. The crop being about the same as last year and stocks in firm hands, prices are likely to be maintained. *Bitter* is little inquired for, and is lower.

PEPPER.—Quiet, with sellers of fair black Singapore at 5d. spot, and sales of April-June shipment at 4½d. *White* pepper is also dull at 8½d. for fair Singapore and 9½d. for fair Muntok.

PEPPERMINT OIL.—American tin oil remains firm in sympathy with the strong market in U.S.A. First-hands quote 16s. 6d. net for the best brands. H.G.H. is offered at 19s. 6d. London terms and 19s. 7½d. to come forward.

In the letter on the American peppermint-oil situation on p. 127 of our last issue the opening sentence should read: “The small lots of peppermint oil which remained in the hands of *growers* have been sold.”

PILOCARPINE.—The fact that one second-hand holder has cleared his cheaper stocks lessens competition from this source. Makers' prices are unchanged, and no alteration is contemplated.

POTASH PERMANGANATE is quoted at from 36s. 6d. to 37s. for small crystals, with a premium of 2s. 6d. for medium and 9s. for large crystals, ex wharf London.

QUININE.—At the auction held at Amsterdam on March 13, 1,417½ kilos. (50,000 oz.) Ed. II. were offered, of which 141½ kilos. sold at fl. 20.75 per kilo. The next auction will be held on April 17, when a similar quantity will be offered. London prices are unchanged at 1s. 0½d. for second-hands and 1s. 0½d. for new, German makers quoting 1s. 1d.

SHELLAC shows practically no change at 70s. on spot for the usual standard TN Orange and 70s. for free AC Garnet, to arrive April-May shipment. TN Orange is 69s. and AC Garnet 66s. c.i.f. Futures have been steady with business restricted, the sales including May at 69s. to 69s. 6d. and August 71s.

TARTARIC ACID has been active for forward delivery; the value of English is 1s. 1½d. and foreign 1s. 0½d.

TURPENTINE has been firm throughout, American closing at 32s. 4½d. on spot and 32s. 6d. for April delivery. French is 32s. 3d. to 32s. 6d. and Russian 23s. 6d. to 26s. for ordinary and rectified.

A monthly report states that trade remains quiet, and apparently, but for some speculative inquiry, the market would go still lower. Some re-sale parcels are being placed on the market, which may weaken it a little further in the next few days, but we look for very little change in value, either way, in the near future. It is possible that producers may take action to curtail the crop this season, but past experience shows their decisions in this respect are not necessarily universally acted upon.

WAX, BEES'.—Privately the market is very firm, with little offered. East African is quoted at from 8l. to 8l. 5s. for slightly drossy to clean.

London Drug-auctions.

Commercial Sale Rooms.

Mining Lanc. March 19, 1914.

At the auction of first-hand drugs the bulk of the offerings was bought in, the tone being somewhat duller than usual. Cape aloes met with a fair demand at a decline of about 1s. per cwt. New buchu is firmly held, and for Sumatra benzoin steady rates were paid, Palembang on sales without reserve, being lower. Cascara sagrada of very old crop sold cheaply. Indian (Mangalore) cardamoms comprised the bulk of the offerings, and brought steady prices. Java powdered coca-leaves sold cheaply; no dragon's-blood or gamboge offered. Honey was in fair demand and prices favouring buyers, especially Cuban. Ipecacuanha hung fire in auction for both Cartagena and Matto Grosso. Japanese mint oil sold at a nominal reduction of 4d. on private market, and for common Aden myrrh full prices were paid. Orange-peel very strong, and likely to go dearer as the season advances. Rhubarb quiet. No grey Jamaica sarsaparilla was offered, and only a few bales of Tinnevely senna were brought forward. Jamaica beeswax brought famine prices owing to scarcity. The following table shows the quantity of goods offered and sold:

	Offered	Sold		Offered	Sold
Aconite (Jap.)	20	0	Ipecacuanha—		
Aloes—			Cartagena	15	2
Cape	72	64	Matto Grosso	15	0
Curacao	10	0	Kamala	10	0
Socotrine	10	0	Kola	10	0
Balsam tolu	1	1	Lime-juice (puns.)	6	0
Belladonna-root	5	0	Lime oil	2	0
Benzoin—			Liq. and anise		
Palembang	30	7	cachous	3	0
Siam	26	0	Mint oil (Jap.)	7	7
Sumatra	67	36	Myrrh	25	2
Buchu	10	0	Orange-peel	15	7
Calumba	20	0	Papain	12	0
Campbor, Jap. (ref.)	11	11	Quince-seed	6	0
Cannabis indica—			Khubarb—		
Bombay	2	0	China	38	3
Cantharides—			Ch. Rhap. (bgs.)	20	0
Chinese	2	0	Salep	2	0
Russian	1	0	Sarsaparilla—		
Cardamoms & seed	126	73	Lima-Jam.	13	0
Cascara sagrada	256	156	Native Jam.	1	1
Cashew-nuts	22	0	Scammony-root	125	0
Cinchona	20	0	Seedlac	50	0
Coca-leaves	76	24	Senna and pods—		
Copaiba	15	0	Alex.	2	0
Croton-seed	44	0	Tinnevely	26	26
Cubebs	16	0	Squill	20	0
Cuttlefish-bone	40	0	Tonka-beans	13	0
Elemi	30	0	Tragacanth	7	7
Ergot	1	0	Turmeric	60	0
Eucalyptus oil	11	0	Wax (Bees)—		
Galbanum	2	0	Australian	8	0
Gum acacia	21	1	East African	29	0
Honey—			East Indian	22	0
Cuban	50	50	Jamaica	2	2
Hayti	40	30	Morocco	6	0
Jamaica	225	65	West Indian	2	2
West Indian	5	0	Wax, Veg.		
Jalap	15	15	Jap.	20	0

ALOES.—Cape met with a fair demand, at a decline of about 1s. per cwt. Good hard bright firsts Mossel Bay on 20-per-cent. tares sold at from 40s. 6d. to 41s.; fair ditto, 39s. 6d.; fair to good seconds, 37s. to 39s.; dullish seconds, part slightly drossy, 35s. 6d. to 36s.; ordinary seconds, slightly drossy, 34s. to 34s. 6d.; loose collected ditto, 33s. 6d. per cwt. Ten cases of fair darkish Curaçao liver in cases was limited at 45s. The *Balmoral Castle* has brought 30 cases from Mossel Bay.

BENZOIN.—Sumatra sold at valuations, 20 cases of fair almondy seconds realising 7l. 5s. per cwt., and a case of country-cut with false packed ends at 6l. 12s. 6d. A lot of 22 cases good fair evenly packed seconds, with storax flavour, was offered, of which eight had been sold privately, 7l. 17s. 6d. being quoted for the balance. Seven cases Palembang barks seconds sold at from 62s. 6d. to 65s. per cwt., being about 5s. cheaper. A lot of 26 cases brown dusty Siam sittings in block offered, and a bid of 95s. per cwt. is to be submitted. The arrivals comprise 53 cases from Singapore and Penang.

BUCHU.—Five bales new crop good green round, somewhat stalky, offered, and firmly held at 5s. 6d.; very stalky bronzy ovals were limited at 2s. 2d. and greenish at 2s. 4d. The *Balmoral Castle* has brought 47 packages from Cape Town, partly in transit.

CARDAMOMS.—The chief offering was a parcel of about 57 packages Indian, which practically all sold at steady rates, comprising extra bold round pale, 5s. 6d. to 5s. 7d.; medium to bold ditto, 5s. 4d.; small ditto, 4s. 2d. to 4s. 3d.; brown and split, 4s. 7d. to 4s. 8d.; tiny round, 3s. 6d.; extra long pale, 5s. 4d. to 5s. 6d.; small and medium long, 4s. 8d.; seed, 4s. 7d. to 4s. 9d. A few lots of Ceylon-Mysore sold, including extra bold pale, a few open, 5s. 3d.; medium to bold ditto, 5s.; small, 4s. 7d.; splits and pickings, 3s. 4d.; seed, 4s. 7d. Six bags Indian seed sold at from 3s. 8d. to 3s. 10d.

CASCARA SAGRADA sold cheaply, 156 bags of good seven to eight years' old bark realising 37s. 6d. per cwt. gross for net, without discount.

EUCALYPTUS OIL.—Eleven cases of water-white, analysing 69 to 70 per cent. eucalyptol, were limited at 1s. 4d. per lb.

HONEY was in good demand at easier rates, the sales comprising 50 barrels (5½ cwt. each) Cuban, at from 31s. 6d. to 33s. 6d. for good to fine white, fair 28s. 6d. to

30s., pale sugary 25s. to 27s. 6d., fair yellow 27s. to 28s. 6d. Of Hayti, 30 cases sold at 27s. 6d. for fair pale setting yellow. A fair quantity of Jamaica was disposed of, comprising good pasty pale set, 33s. to 34s.; fair palish, 29s. 6d.; and dull to fair yellow, 26s. to 29s. 6d.

IPECACUANHA.—Privately, business has been done in Cartagena at 7s. per lb. and Matto Grosso at 8s. 3d. In auction 10 bales Matto Grosso offered and held at 8s. 3d. Nine bags of fair Cartagena were limited at 7s. 2d., and for two cases 6s. 9d. per lb. was paid. The *Araguaya*, from Monte Video, has brought 29 packages of Matto Grosso.

JALAP sold cheaply, 15 bags with a test of 6.4 per cent. Harrison realising 5½d. per lb. without reserve; no discount, gross for net.

KOLA.—For ten bags of dullish dried West Indian halves a bid of 3d. is to be made.

MYRRH.—Two cases of ordinary dark partly blocky Aden sorts sold without reserve at 57s.; 12 bales of slightly mixed Aden and Somali sorts were limited at 55s.

ORANGE-PEEL.—Very firm. Fair bright Tripoli strip was held at 1s. 6d., at which small sales had been made previously to the auction. Subsequently six bales sold at 1s. 6d. for similar quality.

RHUBARB.—Quiet. A single case of medium to bold round Shensi, with three-quarters good pinky fracture, sold at 3s. 2d., and the same price was also paid for a case of flat, being cheap. Two cases of medium flat High-dried, with three-quarters pinky fracture, sold at 1s. per lb. The arrivals comprise 23 cases from Shanghai and 15 cases *via* Hamburg.

SARSAPARILLA.—No grey Jamaica offered. Thirteen bales Lima-Jamaica were held at 1s. 8d., a bid of 1s. 7d. being refused. A single bale of native Jamaica, all that offered, sold at 11d. per lb. for dull yellow and red mixed. The *Trent* has brought 16 packages from Panama and three native from Jamaica.

SENNA.—Tinnevely was scarce, 26 bales only being offered, and sold at 1¼d. to 1½d. for common small yellowish, 2½d. for small greenish, 3d. for medium-size pale greenish, and 4½d. for medium to bold greenish. Pods sold at 1¼d. per lb.

TONKA-BEANS.—Nine cases fair frosted, part dampish Para were held at 2s. 6d.

WAX, BEES.—Jamaica being scarce was 2s. 6d. dearer, two barrels going at 9l. 5s. for good yellow and red; two cases dark to fair Dominican sold at 8l.; 12 cases bleached Calcutta were limited at 8l. 12s. 6d. to 8l. 15s.

Heavy Chemicals.

There is nothing of special importance to be reported as regards the position of heavy chemicals, and, generally speaking, the state of business continues the same as indicated in recent reports. If anything, there is perhaps a somewhat heavier inquiry on forward account. Values maintain a steady tone, mostly at unchanged rates.

SULPHATE OF AMMONIA.—This market is quiet, and quotations are slightly lower, in spite of the fact that there is a fair demand for prompt parcels. Present nearest figures: London, 25 per cent., 11l. 15s.; Leith, 12l. 10s.; Liverpool, 12l. 8s. 9d.; and Hull, 12l. 7s. 6d. There is little doing in forward, for which somewhat lower figures would be accepted.

BENZOLS are scarcely so brisk as they were, but prices keep on the steady side. Present naked figures: 90 per cent. 1s. 1d., and 50 per cent. 11½d.; North, 10½d. and 10¼d. to 11d. respectively.

LEAD-PRODUCTS are in good demand and maintain a firm tone. White lead, 26l.; red lead, 21l. 10s.; and pig lead, 20l. 10s. per ton Tyne.

MAGNESIUM SALTS in fair request for home and export. Sulphate, 67s. 6d. to 72s. 6d.; chloride, 72s. 6d. to 77s. 6d.; and carbonate, 27s. 6d. to 37s. 6d. per cwt.

ZINC SALTS continue somewhat quiet. Zinc-sulphate crystals, 6l. 10s. to 7l.; and zinc chloride, 100° Tw., 6l. 10s. to 6l. 15s.

Continental Drug and Chemical Markets.

AMYL PREFS.—The manufacturers appear to have formed a fresh Convention, as the advance of m.20 per 100 kilos., which was made about a fortnight ago, has been followed by

a further one of m.20. Nothing is heard of cheaper quotations from "outsiders," only second-hands occasionally appearing with lower prices. Some makers are not willing to make contracts at present, but only sell small quantities for prompt delivery, in order to prevent speculative buying. The quotation for amyl acetate is m.265 to m.295 and amyl alcohol m.330 to m.360 per 100 kilos.

CAMPHOR (REFINED).—The German refiners have recently been making renewed efforts to try to regain the trade in refined camphor, which has been taken away by the Japanese. With the beginning of March a fairly considerable reduction was made, but their prices are still above their competitors'. There are no signs of any improvement in prices.

CITRIC ACID.—The uncertain position prevailing hitherto has lately given way to a sharp upward movement. Raw material is very scarce, the Camera having nothing to dispose of, and they continue to receive large inquiries. In these circumstances the citric-acid makers are very reserved in offering, and second-hands have practically no stocks, so that already a scarcity exists, which will probably be increased in the next two or three months. The basis price for lead-free crystals is m.425 per 100 kilos.

FORMALDEHYDE has for a lengthy period stood at prices below normal, and lately still cheaper offers have appeared, which points to the fact that there must be a considerable over-production.

QUILAI.—Offers received from Chili, although few, were lower. Spot (Hamburg) is dear, and is m.70 to m.72, while later deliveries of whole can be bought at m.68 per 100 kilos. Cut costs m.73. Later delivery is offered by "bears" under market prices.

Java Cinchona and Tea.

The report on the Dutch East Indian Government Cinchona-gardens for the last quarter of 1913 states that the temperature during that period was quite abnormal. At the end of October and during the first half of November rain fell, but during the last half of the quarter there was drought, with a strong east wind, the result being that, except at Kawah Tjiwidei, the rainfall was below the average of the last five years for this quarter. This enabled work to be carried on in the gardens, and, though the wind was bad for the young plants set out in 1912, no harm was done to the well-established plants, and the conditions were even favourable to them, since the cinchona-disease "djamoer oepas" was prevented from appearing. At Rioeng-Goenoeng an area of 15 bouws, cleared of "Succirubra" trees two years ago, was planted with "Ledger" seedlings, and the established Ledger areas were gone through, and gaps filled with Ledger grafts on "Hybrid," "Robusta," or "Succirubra" stems.

The harvest for the year was 2,000,000 half-kilos. of bark, of which 1,800,000 half-kilos. had been shipped by the end of the quarter.

A sale of seeds was held at Bandoeng on December 12, when the following sums were realised:

Eighty packets of Ledger seed, 25 grams each ...	Florins.
Sixteen packets of Hybrid seed, 50 grams each ...	15,255
Eighteen packets of Succirubra seed, 50 grams each ...	2,001
each	1,442
	18,698

With the proceeds of the previous seed-sale, this makes 29,004 florins from this source for the year.

According to a note in a recent number of the "Indische Mercuur," Heer van Leersum, the Director of the Government Cinchona-plantations, will cease work at Tjinjrocan, one of the Government cinchona-gardens, in the course of the present year. Dr. Kerbosch, now Government analyst at Buitenzorg, has been appointed Assistant Director of the Government Cinchona-gardens. The report also refers to the work done in the tea-selection gardens and nurseries. An investigation of *Thea lanceolata*, a native Java tea-plant, is being made with a view to this being used as "stocks" for Assam grafts. An alkaloid has been isolated from the plant, but it is not yet possible to say whether it is caffeine or theobromine. It is hoped that stocks of this plant will be immune to root-mould.

OPIUM CONFERENCE.—The third International Opium Conference will, at the instance of the Netherlands Government, take place at the Hague next May to consider the putting into force of the opium convention of 1912. At the invitation of Sir Edward Grey, Sir William Collins and Mr. Max Müller have again consented to act as plenipotentiaries for Great Britain.



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Proprietaries for Insured Persons.

SIR,—I will try to reply to "Scrutator," though whether he will be convinced is a point I am doubtful upon. I was chiefly concerned in my first letter with the pointed remarks of "Xrayeer" that the *C. & D.* was practically the only trade journal that spoke its mind upon the question of proprietaries being prescribed. I wished to point out that this position was not correct, and that in one county (of which I could speak) these are greatly on the increase. It appeared to me that the Insurance funds were being used in "trying" some of these to an extent not warranted. "Scrutator" asks, Who is to judge? I will answer that by quoting from a Pharmaceutical Committee's report to a Medical Benefit Sub-Committee:

"Though the Committee cannot help but notice the great increase in the prescribing of proprietary articles, they feel they have no right to tell a doctor what is or is not suitable for his patient, and that the suggestion of a conference between a sub-committee of the Panel and Pharmaceutical Committees should come from them. The Pharmaceutical Committee would welcome such a suggestion in the interests of all." etc.

The doctors had presented a list of proprietaries which did not seem to be equitable, hence the above. I do not think chemists are interested in what shall or shall not be ordered except in the reasonable hope that they shall be paid in full for supplying goods ordered. Special makers' tablets carry no dispensing-fee in the county I am speaking of. If "Scrutator" defends mist. tussi (special maker), then he and I shall never agree. I have a list of proprietaries gathered during the last twelve months from areas eighty miles apart, from country districts and thickly populated towns, and I do say that there is need for some direction in the matter of prescribing proprietaries. Obviously I cannot publish a list which would bring me into correspondence with manufacturers as to the reason why their preparations were to be barred and not those of another maker. The Panel Committee and the Local Medical Committee are trying to draw up suggestions to meet the case. Has "Scrutator" ever received a prescription written for a private patient of conf. sennæ 2 lb.? I could quote more like that. Of my own knowledge I can assure him that the interests of the insured are well looked after by the Insurance Committee. I find that any member representing insured persons is always ready to bring forward any grievance which has been brought to his notice. The case of my county may be exceptional, and after conversation with men in touch with other counties, I really think it is; but for a new venture I am surprised it has worked so well and so smoothly.

Yours,

M. P. S. (145/9.)

SIR,—Is not "Scrutator" beating the air? Every dispenser indulges in a general growl and grumble over the matter of proprietaries—a very reasonable attitude, too, considering the scores and hundreds of bottles opened and remaining on our shelves to meet the vagaries of various prescribers. The main point in the matter where these proprietaries come in under Insurance dispensing is, Are

we paid for them adequately? Personally I would dispense the moon if available and payment was assured. Pharmacists are between the devil and the deep blue sea. They have to dispense what the doctors prescribe, with always the Food and Drugs Acts inspector looming in the distance, then whistle for their money! All this business of arrears and discounts, etc., will not bear discussion. Acting on the hint of the Chancellor's "that no protest had been received from their organisation," the Society should at once make their protest. Mr. Lloyd George says "he did not know they were bound to pay bills of this kind, . . . extravagant bills"—not the fault of the dispenser, but the prescriber. The Chancellor, of course, omits that important fact. S. P. N. (161/58.)

The Dispensing-fee on 500 Tablets.

SIR,—I observe that "Scrutator" says that the dispensing-fee on 500 tablets is 3s. 8d. Is this so? I may be wrong, but I am under the impression that Tariff rates and dispensing-fees would not be allowed, particularly on a prescription calling for an original bottle of tablets of a special brand. There are two ways in which the profit could be calculated in such a case, but the fairer method all round seems to be to add 33½ per cent. to the cost of the original package and 2d. as a dispensing-fee. In the case of thyroid tablets this might work out to something like 12s. 2d. in place of perhaps 14s. by "Scrutator's" method, the latter yielding much too high a profit on an article that cost, say, 9s. Where a dozen or two dozen tablets are prescribed the Tariff, of course, rules the charge.

I am, etc.,

DISPENSER. (161/14.)

[There is a dispensing-fee on tablets if they are not named in the Drug Tariff; none if they are named—*c.g.*, thyroid tablets and cascara sagrada tablets. The nature of the tablets referred to by "M. P. S." was not stated.—EDITOR C. & D.]

Wholesalers and Insurance Accounts.

SIR,—Does "A Wholesale Firm" in the supplementary letter you refer to in last week's *C. & D.* mean the borough or county of Leicester when he says the chemists cannot get their money for N.H.I. dispensing? If the latter, I cannot understand it, because I have a chemist friend on the panel there who tells me he gets paid monthly and in full, a fact which has always made me feel somewhat envious. Your own report in the same number of *C. & D.* under the heading of "Reports from Local Centres" bears out my friend, as it says the Drug and Drug Suspense Funds show a surplus of about 600l. If he refers to the Borough of Leicester it is strange that Nottinghamshire and Derbyshire follow in the same connection.

INQUISITIVE. (161/31.)

SIR,—In connection with "A Wholesale Firm's" letter in issue of March 14, may I call attention to the remarkable silence of the one man in Parliament to whom chemists look? When the 1908 Act was before the House Mr. Glyn-Jones was exceedingly prominent and useful in the various discussions; but now, when the matter touches our pockets more directly, why is it left to Mr. Locker-Lampson and others to try to get some announcement from the Chancellor with regard to money owing to chemists? We chemists in Bolton have approached both our members, but as we are only a very small proportion of their constituents we can hardly expect them to exert themselves greatly. Mr. Glyn-Jones, however, is looked upon by us all as the trade representative in the House, and we have some little right to expect more from him. Also he is on the side of the Government, and therefore can command more respect than a member of the Opposition could. I shall, perhaps, be told that the party Whip is responsible for his silence; and if that is so, then I think chemists will agree that it is a great pity that fear of the party Whip should swamp the interests of the trade. Mr. Glyn-Jones has the chance of making the trade more than ever his debtor, and I, for one, trust that he will use it.

ERNEST N. FOX.

Bolton.

Jay Mack and Bagmen.

SIR,—I suspect Jay Mack has misused "Bagman's" soft soap. Judging from his stress and strain he must

have swallowed a big dose. Well may he say it had a "strong flavour"; it appears to have left a bitter taste. Jay Mack's opinion of travellers is exceptional, as you say, and his knowledge of them more peculiar than particular. He shows neither respect for customers, nor travellers, when he says it is not possible for them to have really open discussion. Surely it is libelling the customers to say of them that they expect every traveller to agree with them or lose an order! Religious and political discussion should be avoided as far as possible; but no traveller should lose his self-respect and talk as a customer talks, thinking he will gain business by that. He gains by the good-will of his customer, but this good-will cannot be obtained and retained by weak acquiescence—it must be founded on truth and honesty. His quotation about "Bagman" having been "all things to all men" is taken away from its context. The great traveller who wrote this added, "that I might by all means save some." Also, "I please all men in all things, not seeking mine own profit but the profit of many." Why should "Bagman" be unable "to face facts"? Such an assertion is groundless and ridiculous. I am not finding fault with Jay Mack's facts, but his style of writing. He says few of the big companies want to see bagmen. My experience during thirty years "on the road" is otherwise, and I know practically all of them (except London and North-East England) from Aberdeen to Plymouth and from Norwich to Cork. May I respectfully suggest that Jay Mack take his own prescription, "not to interfere," unless he knows what he is talking about? I cannot interfere as regards his figures, as I have not studied them; neither should he go out of his way to malign "bagmen," whose ideals he does not seem to understand.

Yours faithfully,

St. Anne's-on-the-Sea, March 16. A. C. BINGHAM.

SIR,—As a qualified assistant pharmacist, I would like to answer Jay Mack's criticisms and strictures as to assistants in the drug-trade generally, and also draw the attention of other assistants to what, in my opinion, is a serious menace to their future prospects. In the first place, Jay Mack must remember that the present-day assistant did not draw up the Pharmacy and other Acts, supposed to be for the benefit and protection of qualified men; but Jay Mack, probably being from his own showing a prominent pharmacist of many years' establishment, had a hand in framing these Acts, and it is due to the slackness, inefficiency, lack of foresight, and general apathy of the framers of the Pharmacy Acts that the drug-trade is what it is to-day. Does Jay Mack really expect that he is going to secure the services of a competent dispenser for a salary that the scavengers of Leeds and Burnley recently refused? The curse of the drug-trade is not cheap labour, but lack of protection for qualified rights and poor profits. The Poisons and Pharmacy Acts are in many cases totally ignored by drug-store men, who thus are on the same footing as the qualified man, without being 100l. or more out of pocket over a practically useless qualification. The Glyn-Jones Bill is just going to increase the number, and give these men the chance they want to appear before the public as "qualified" men. I should like to hear the views of other qualified assistants, both concerning Jay Mack and the Glyn-Jones qualification.

J. R. W. (161/41.)

A Roland for an Oliver.

SIR,—G. E. Oliver is either a very young man or else he is unusually unobservant. He says he has never heard of me advocating that commercial subjects should be included in our examinations, whereas most men will agree that I have written on that very subject until readers must be tired of it. There are men on the Pharmaceutical Council who are as keen on these subjects as I am, and in due time, doubtless, it will be done. G. E. Oliver's grandiose ideas on qualified assistants impelled me to go through your Supplement to see how many men were wanted last week. I found: Juniors, 30; unqualified, 34; and qualified, 64. So that out of 128 employers sixty-four wanted men who would come under the heading of the new Glyn-Jones assistant. Multiplied by forty for a year, that means over 2,000 men yearly. I enclose you

C

the Supplement part, all marked off as I went over it. The back page, containing the article on "The New Uniform," is too good to part with, and I am saving it for my "Diary." G. E. Oliver should read it on his way to the bottom of the class. No employer in England or Scotland or Wales, living away from his shop, ever gets a legal meal unless he employs a qualified man, and the chemists' assistants of Aberdeen who were fined by the Pharmaceutical Society less than ten years ago were caught in the breakfast hour before the "boss" arrived. Yet G. E. Oliver says, "An employer cannot remain chained to his counter day in, day out." Why, that is what all of us have to do who cannot afford a qualified man! I have not had a chance of rest or recreation, except on my yearly holidays, for ten years, and could well do with a good qualified man, but my business won't run to it. If I did not keep books I might think I could afford one, and then try to find my balance at the year's end without much success. Qualified men don't want to waste their time assisting men like me, whose businesses are of the simple, homely type, easy to manage and well out of the centre of a town. Mr. Currie, of Glasgow, proved some years ago that the average chemist's business turnover was 1,000*l.* a year. Such men constitute three-quarters of the trade, and well deserve a grade of assistants who will (as in Ireland) take charge in the temporary absence of the master. It will be one more step in the direction of making small shops into business-like concerns where some continuity of service can be had. At present, when a lone chemist is ill, there is not a soul in his shop able to carry on the trade. Just at the very time when the poor man needs extra income he is more likely to have no income. All this may not sound so grandiloquent as other letters appearing in your esteemed paper, but I claim for mine that it is practical and sound common sense.

JAY MACK.

Subscribers' Symposium.

For questions, answers, incidents, and interchange of opinions among "C. & D." readers.

More B.P. Details Wanted.

"May I offer the suggestion that the new edition of the B.P. should contain the geographical sources and Natural Orders of the vegetable materia medica? The insertion of these details immediately following the official name of the drug would not add materially to the bulk of the volume, and would be welcomed not only by the student, but by the busy man whose examination days are over, and who still periodically reads through the book for pleasure and instruction."—R. A. Jones, jun.

Methyl Alcohol and the Eyes.

S. S. S. (155/25) further writes on this matter: "In my own experience all strong antiseptics, like sulphur, salicylic acid, resorcin, etc., applied to the hair seem in an average number of cases to work downwards and have an irritating effect upon the eyes. An ointment of salicylic acid and sulphur could not, in several cases I know, be used for this reason. In my own personal use I have found that a lotion of ac. salicyl. (ziss. to 3vj.), S.V.R. c. ol. ricini had this effect on the eyes, just as if there were very fine dust in them, which almost seemed to amount to a blurring of vision for distant objects. This was much worse when S.V.M. (industrial) was used instead of S.V.R."

Profits and Expenses.

"I do not see how 'Traveller' arrives at 100 per cent. let alone expenses. Expenditure, 3*s.* 10*d.* every two months; profit, 8*d.* every two months; a year's sales equal 4*s.* 6*d.* × 6, or 27*s.*; and as the goods cost 3*s.* 10*d.* × 6, or 23*s.*, the profit is a mere trifle. This cent-per-cent. idea of profit is wholly illusory."—S. P. N. (161/58).

"I am obliged to 'Traveller' for his remarks *re* expenses and profits, and I quite see the matter as he has now put it. The 4*d.* difference between cost and selling price on the Allenburys' preparation gives us, according to 'Traveller's' view, a return of over 200 per cent. by selling a dozen packages per year, and I think even the smallest chemist would get through this quantity in that time. I wonder, however, how the retail trade would like the P.A.T.A. to adopt 'Traveller's' idea; 200 per cent. is, after all, a huge return for a shopkeeper, and even 66⅔ per cent. would be very good indeed. The latter percentage would

change the figures to 'cost 2*s.* 1½*d.*, sell at 2*s.* 3½*d.*! Now, with all respect to the editor and 'Traveller,' I can only say that I am afraid, with these 'investment' calculations, the attention of readers is being turned away from the practical way of looking at the whole matter. The profit allowed on proprietaries is totally inadequate in face of increasing expenses."—Victor E. Hanna.

"The explanation given by 'Traveller' in last week's issue to 'Xrayser' and Mr. Hanna on the question of profit and expenses is, no doubt, interesting, and from the point of view in which it is treated is, of course, correct. I hold, however, that this is not the light in which a retailer should consider the subject. The cost and selling figures which 'Traveller' quotes when he mentions an A. & H. proprietary show, roughly, 15 per cent. on the turnover. Supposing a retailer's entire trade were so composed, how would he stand at the end of a year, with the expenses of running his business totalling at least 20 per cent. of the turnover? By indulging in figure problems we are getting away from the real point at issue, and accordingly, in once more saying that selling proprietaries at such profits means trading at a loss, I again bring up the pivot of my former letter. Observe that I use the word trading, and not 'investing,' and it is to trading we must look for our living. I think the question of insufficient profit on proprietaries—especially, as I remarked in my other letter, those issued by firms who are seeking our drug and sundries orders in addition—should be taken up by retailers' associations all over the United Kingdom, and a firm stand made in the matter."—Malt and Oil (161/56).

A Cure for Burns.

"I have been spending the week-end at a remote village in Staffordshire, and there I heard at first-hand of some very wonderful cures of scalds and burns by the application of 'gold size,' and I am wondering whether any of your readers have had any experience with it. The story as I heard it is that some old lady in Manchester had quite a reputation for healing burns, etc., with an application to which she did not give any name; but one day the daughter let the secret out, and soon it became common knowledge that this wonderful remedy was none other than gold size. The method of application is to paint the burn or scald with the size by means of a feather, and, in order to prevent this drying too quickly, the wound is then covered over with a linen rag soaked in linseed oil, and (I have it on undoubted authority) the wound soon heals, and that without a scar. Is this similar to the collodion coating in the wet photographic process of the old days? I am not clear as to what are the constituents of gold size, but it is likely it forms a coating over the wound which keeps out the air."—Wm. Bousfield.

Dispensing Difficulties and Notes.

Readers are advised to consult "The Art of Dispensing" in regard to difficulties of compounding. We welcome fresh problems for experiment and elucidation in this column, and invite the co-operation and correspondence of dispensers.

Problems from India.

SIR,—The following prescription was presented to us, and desired by the doctor that the boluses should be of the smallest possible size. We tried different methods, but of no avail. Will you please enlighten us?

Pul. cubeb.	...	...	...	gr. xx.
Ol. santal. fl.	...	...	...	℥xxx.
Ol. cubeb.	...	...	...	℥xxx.
Pulv. tragacanth.	...	...	...	q.s.

M. Ft. bolus j. Mitte xij.

Another prescription was sent to us from a lady M.D. The following is the recipe:

Guaiacol	...	...	...	mij.
Tr. iodi	...	...	...	mj.
Mist. guaiaci	...	...	...	3j.

M. Mitte 3vijj.

As soon as the tr. iodi was added the whole mixture became deep green. The mist. guaiaci was, of course, prepared B.P. with tragacanth. May we safely dispense it as it is? Also let us know if there will be any change in the medicinal properties.

Yours faithfully,

TRIOLIUM. (142/13.)

[The only way in which the first can be compounded without adding much to the size of the bolus is to employ beeswax in the way in which it is used for pills containing a large quantity of essential oil. The dose of beeswax is reputed, in an officinal way, to be up to 30 gr., so there need be no hesitation in using the quantity required

in this instance. Melt from 12 to 15 grains of beeswax, according to the weather temperature, add to it the essential oils, and stir in the cubebs. Chill the product so as to facilitate handling. Cubebs being oily in itself, a few grains (4 or 5) of powdered liquorice-root worked into the mass prevents the surface of the bolus looking oily. Roll in any harmless absorbent powder—powdered liquorice-root serves the purpose very well. The constituents should be incorporated gently, so as not to introduce much air, which tends to make the mass "short."—Tincture of iodine produces a green colour with guaiacum mixture, and the addition of guaiacol converts it into a blue. The mixture may be safely dispensed, and the change in medicinal properties may be discounted.]

Insurance Dispensing Queries.

PROTAGOL BOUGIES.—*J. E.* (160/38).—Charge 7½*d.* for six 2-grain protagol bougies, being 2½*d.* for protagol (cost 4s. oz.), 1*d.* for cocoa-butter, and 2*d.* dispensing-fee.

REPEAT PRESCRIPTIONS.—*C. A. S.* (160/8) asks if his County Insurance Committee can make a rule to the effect that chemists must fill in, free of charge, the ingredients of all repeat prescriptions when rendering accounts. [There is nothing in the chemists' agreement with the County Insurance Committee that enables him to claim payment for rendering an account to the Committee, which is substantially what the question implies. If, therefore, it is necessary for the Committee or its checkers to check the price charged for a repeat prescription, the chemist who renders the account must supply the Committee with any reasonable information regarding the basis of the charge, and if this involves writing the ingredients there is nothing in the agreement, or in the Regulations, to authorise the chemist to charge a penny, or any other fee, for this. The subject is a grievance with many chemists, but the Commissioners have consistently refused to authorise payment of a copying-fee wherever duplicate prescription-forms are in use. The difficulty has been met to some extent by an agreement between panel doctors and panel chemists that repeat prescriptions should not be written in respect to any medicine that has not been prescribed in the first instance during the current quarter.]

Legal Queries.

The majority of difficulties in regard to trade law are anticipated by the legal information printed in "The Chemist and Druggist Diary," 1914. See especially pp. 459-499.

J. M. (160/30).—Neither insect-flowers nor white hellebore is a poison within the meaning of the Poisons and Pharmacy Act, 1908, nor is a mixture of the two.

Phoenix (155/73).—Is a solicitor entitled to divulge in court, in the interests of one client, knowledge concerning A obtained in a previous case when acting for another client? [The solicitor is entitled to do so.]

J. T. D. (159/57) asks if druggists in Ireland can compound veterinary prescriptions. [In so far as these are medical prescriptions within the meaning of the Pharmacy Act, 1875, they may not be compounded by druggists.]

C. D. (160/32).—A tablet composed of one ingredient only may be held out and sold as a cure for rheumatism and other human ailments, and proprietary rights may be claimed in regard to it—as, for instance, by calling it "Dr. B.'s"—without incurring liability to medicine stamp-duty. As an entire drug it is exempt.

Forfar (156/18) recently purchased a property with a store at the back. In 1892 a neighbour, who has since died, built a gable wall on top of the wall of the store. What is "Forfar's" position? [According to English law, "Forfar" is too late to interfere with the gable wall, unless he can show that it was built in pursuance of a written consent or agreement.]

Chemist (159/54).—A twenty-one years' lease, determinable by notice at the end of the first seven or fourteen years, has been assigned by the lessee, who wishes to know whether he can still determine it at the end of the first seven years. [The lessee, having assigned his interest, is no longer entitled to determine the lease, the right to do so being now vested in the assignee.]

Quercus (159/70).—If your phosphotonic is sold by registered chemists and limited companies carrying on business in accordance with Section 3 of the Poisons and Pharmacy

Act, 1908, it may be sold unstamped as a "known, admitted, and approved remedy." If sold by any person unqualified in the above respect, or who has not served a regular apprenticeship to a chemist, apothecary, etc., it is liable to medicine stamp-duty, because the labels hold out the preparation as a remedy for human ailments.

Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6*d.*

Maltose (155/34).—ANALYTICAL CHEMISTS FOR BREWERIES should have the A.I.C. qualification or its equivalent, with special knowledge of the chemistry of carbohydrates and of bacteriology.

Adventurer (155/4) is thinking of going to South America. "If I went without first obtaining employment," he writes, "would it be hard to find, and is the pay good, as an unqualified man?" [Yes; he will have to rough it, and, unless he speaks Spanish, he will have a bad time of it. Pharmacy in the Argentine is more Spanish than British, and pharmaceutical examinations are in force in each country.]

J. A. (136/63).—(1) CHEAP BAKING-POWDER.—The following are examples of the cheaper class of baking-powder:

1.		2.	
Potassium acid phosphate	... 7 parts	Calcium acid phosphate	... 37 parts
Sodium bicarbonate	... 8 parts	Sodium bicarbonate	... 23 parts
Cornflour	... 7 parts	Rice flour	... 40 parts

(2) If the title you refer to is used by other manufacturers, that should be a reason why you should avoid it, as, apart from the fact that the title may not have been registered as a trade-mark, there are common-law rights which must be respected.

W. C. B. (142/46).—(1) LIME-CREAM.—See *C. & D.*, March 8, 1913, p. 128. (2) BOOKS ON FERTILISERS.—Dyer's "Fertilisers and Feeding-stuffs" (Lockwood, 1s.); Van Slyke's "Fertilisers and Crops, or the Science of Plant-feeding" (Paul, 12s. 6*d.*); Hall's "Fertilisers and Manures" (Murray, 5s.).

L. R. B. (144/31).—PRICE OF CAPSULES DISPENSED.—Sixpence per dozen is a fair charge for capsules dispensed from prescriptions, provided the ingredients are not expensive and several dozen are made at a time. For Blaud's pill in capsule 4*d.* per doz. is an average charge. Our correspondent charged 8*d.* per doz., but does not mention the ingredients. He desires to have expression of the opinion of our readers generally as to what their charge for dispensing capsules is.

Apothecary (154/73).—Saccharin is very sparingly soluble in LIQUID PARAFFIN, but it dissolves more than enough to give the oil a sweet taste. Vanillin is much more soluble. To flavour and sweeten a pint of liquid paraffin, a grain of each should suffice. Heat an ounce of oil in a water-bath, add the saccharin and vanillin to it, shake until dissolved, and add to the rest of the oil, also warmed.

Century (3/35).—A registered chemist starting in business in a rural area should apply to the local Insurance Committee to get on the panel, when he will be put on at once. This does not, however, affect during the Insurance year the position of any doctor who has contracted to supply medicines to insured persons.

W. F. (158/58).—The prepared pitch-composition sold in eakes to rub on GOLF-CLUB HANDLES is a modification of cobblers' wax, as you suggest. Try the following formula:

Common resin	... 6 oz.
Black pitch	... 1 oz.
Vaseline	... 1 oz.

Melt together.

Adjust the amount of vaseline to make the composition of the desired hardness; it should be slightly stiffer than cobblers' wax.

I. M. W. (145/25).—THE POLISHING-POWDER is believed to be a mixture of putty powder and oleate of tin. A few experiments will show you whether this is correct.

R. H. (7/3).—SOIL STERILISATION.—The chemicals employed for fumigating soil are carbon bisulphide, naphthalene, benzene, nitrobenzene, and carbon tetrachloride. Naphthalene is probably the most used for the purpose, the proportion being not more than 0.005 per cent. of the soil. Further particulars are given in *The Chemist and Druggist Diary*, 1910, p. 217.

F. S. (141/33).—DECKLE-EDGING PAPER BY CHEMICAL MEANS.—Deckle-edge is the name given to the rough edge on hand-made paper. It is caused by the pulp being in contact with the deckle or frame of the mould, which thins the edge, and this in drying is always rough. The deckle-edge is imitated on machine-made paper by mechanical means. Your customer now asks you to supply "a sample of a chemical that will eat away the edges of paper . . . so as to leave a deckled edge." It is obvious that there is here an undue appreciation of the power of chemicals, but if you care to begin a research, which presents many difficulties which we think are unsurmountable, we advise you to experiment with cellulose solvents. These are zinc-chloride solution (40 per cent.) and ammoniacal cupric oxide. The last named is made by precipitating hydrated cupric oxide from a 2-per-cent. solution of copper sulphate by means of slight excess of sodium hydrate, washing the precipitate, draining, and dissolving in 15 to 20 per cent. ammonia solution. The great difficulty which you will experience is that the residue of the cellulose solvents will be left on the edges of the paper, and we do not see how the ordinary washing processes can be employed in the case of manufactured paper. There is also the sulphuric-acid process of parchmentising paper, which might produce an imitation of a deckle-edge; but here, again, the acid must be washed off after it has acted upon the paper. The strong acid is employed—67 to 78 per cent.

Dianthus (143/17).—(1) HAIR-TONIC.—You will find the resorcin-and-quinine hair-wash suitable for making into a special line. We gave a formula in the *C. & D.*, October 18, 1913, p. 65. (2) **SOIL-STERILISER.**—See reply to "R. H."

F. L. E. (Yokohama) (148/69).—ARTEMISIA OIL.—The demand for the oil of mugwort (*Artemisia vulgaris*) is very small. The plant has emmenagogue, diuretic, and diaphoretic properties, which are doubtless due to the oil. The oil has been found to contain cineol.

Mel (158/53).—As we do not know the composition of the tooth-paste it is not easy to state definitely the cause of the disappearance of the pink colour of which you complain.

C. W. (151/11).—NEURALGIA AND HEADACHE POWDER.—The usual composition of this remedy is phenacetin (gr. viij) and caffeine (gr. iij.), the quantities in brackets being a suitable dose.

H. B. N. (145/2).—There are several formulæ for skin-cream of the kind you require in "Pharmaceutical Formulas." See also index of last volume of *THE CHEMIST AND DRUGGIST*.

M. A. B. A. (155/62).—SELF-RAISING FLOUR.—The following are standard formulæ:

1.		2.	
Sodium bicarbonate	6 oz.	Calcium-acid phosphate	6 lb.
Cream of tartar	12 oz.	Sodium bicarbonate	3 lb.
Salt	4 oz.	Wheat flour	280 lb.
Wheat-flour	56 lb.		

In each case the dry ingredients are mixed with portions of the flour, and the whole combined in a Gardner mixer.

R. J. G. (158/55).—There is no harmless chemical process that permanently removes superfluous hair from the skin.

E. E. R. (151/45).—CEMENT FOR UNITING GLASS AND METAL.—Cements which resist the action of turpentine and benzoline are the following:

1.		2.	
Portland cement	2 oz.	Iron filings	5 lb.
Prepared chalk	1 oz.	Sulphur	1 oz.
Sand	1 oz.	Sal ammoniac	2 oz.
Sodium silicate	q.s.		

The first three ingredients are mixed into a thick cream with the water-glass.

Novisque (149/71).—PHOTOGRAPHIC SOLUTIONS.—You should carefully study the section dealing with photographic chemicals and preparations in "Pharmaceutical Formulas," as it is written from the photographic chemist's point of view. In deciding what class of developers to pack for sale, regard should be had for the particular brands of plates and paper which sell the best. Amateur photographers prefer

a specialised developer rather than one which is recommended for every purpose. This preference should be respected, otherwise you lay yourself open to blame in case of non-success in developing, etc.

B. Y. (145/36).—CLEANING PIANO-KEYS.—First rub with a rag soaked in benzine to remove grease, and then with prepared chalk moistened with spirit of sal volatile. In cases where the keys have been detached the peroxide-of-hydrogen bleaching process is available, but for ordinary purposes the method given above is best.

L. R. (152/51).—EFFLORESCENCE ON WALL.—This is not a fungus as you suppose, but a chemical efflorescence due to the drying of the plaster. It consists of sodium sulphate and calcium carbonate. The wall should be washed with hot water and then with weak hydrochloric acid, if necessary followed by rinsing with clean water. To prevent the efflorescence from re-forming a coating of drying-oil should be placed on the wall. When this is dry, papering or distemper may be employed as usual.

F. L. (117/24).—PRESERVING FISHING-NETS.—The process to which you refer is as follows: For 1 cwt. of net are required:

Cutch	...	...	...	7 lb.
Copper sulphate	...	...	...	2 lb.
Potassium chromate	...	...	...	1 lb.
Wood-tar	...	...	...	4½ lb.
Water	...	...	...	32 gals

Boil the cutch in the water until dissolved, then add the copper sulphate and potassium chromate. Next the net is added and the tar, the whole being kept in movement for about ten minutes. The netting is then taken out and placed in a covered vessel for twelve hours, then spread out to dry.

The other processes employed for the same purpose involve the use of (1) copper sulphate, (2) alum and cutch, (3) paraffin wax.

Canadian (142/2).—The article that you send us labelled MAPLE OIL is not an essential oil at all. It appears to be a spirituous solution coloured with caramel and containing a mixture of artificial ethers, the chief of which are cœnanthyl ether and ethyl citrate. This solution is, we understand, used chiefly in making maple-syrup, maple flavouring extract, and sometimes also in flavouring tobacco

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," March 15, 1864

The Pharmaceutical Council and the United Society of Chemists and Druggists.

We are told that the meeting on Thursday next, in which we are to take no part, is for our good. We very much question this. Fancy a grand county meeting of foxes, to protest against the closing of poultry yards after dark, at which none of the cocks and hens were to be admitted! How the latter would praise the disinterestedness of the foxes and believe in their truth! . . . In spite, however, of all the above facts, which our readers must allow are at least most suspicious, we do not despair of yet seeing a hearty and friendly union between the two Societies. The United Society can still seek to co-operate with its elder brother and the Pharmaceutical Society may be brought to see that a body mustering nearly three thousand active members of the trade deserves to be treated with more consideration than was exhibited on the occasion to which we have referred. The requisition for convening the meeting on Thursday next definitely states that the interests of outsiders are to be specially protected in the scheme to be laid before it, and yet the Council, in a manner, ignore the existence of the very men for whom the requisitionists propose to seek improved legislation. Surely, on reflection, they must see that in refusing to co-operate with those for whose good they are going to work, they not only act most illogically, but lay themselves open to well-founded suspicions. As the representative of a large portion of the trade, we feel ourselves called on to act as mediator in this matter. Nothing would delight us more than to see the two societies working together in a friendly spirit. In order to bring about this union, we appeal earnestly to the good sense of the liberal members of the Council of the Pharmaceutical Society. The United Society has lost nothing by having made the first advances, and though not represented at the meeting on Thursday, its power will be felt by the pharmacutists as a pressure from without not to be rashly resisted.

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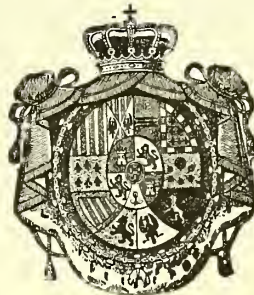
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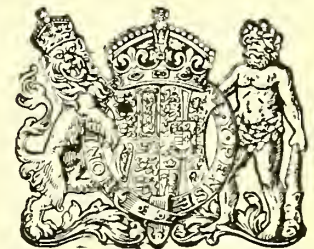
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Oxymel Scilla, B.P., 5 cwt. @ 34/6 cwt.; 1 cwt. @ 36/6 cwt.; *7 lbs. @ 7d. lb.

Papain, 1-80, 1 lb. @ 16/6 lb.; 1 oz. @ 1/4 oz.

Paraffinum Durum, B.P., 2 cwt. @ 3d. lb.; 1 cwt. @ 3 1/2 d. lb.; 56 lbs. @ 3 1/2 d. lb.; 7 lbs. @ 4 1/2 d. lb.; Mollis Flav., B.P., 3 1/2 cwt. @ 20/- cwt.; 1 cwt. @ 30/6 cwt.; 28 lbs. @ 4d. lb.; 7 lbs. @ 4 1/2 d. lb.; Alb. B.P., 3 1/2 cwt. @ 58/- cwt.; 28 lbs. @ 7 1/2 d. lb.

Pepsin, B.P., 10 lbs. @ 9/4 lb.; 1 lb. @ 10/- lb.

*Syr. Aurant., P.B., 7 lbs. @ 9 1/2 d. lb.

*, Easton, B.P., 7 lbs. @ 1/0 1/2 lb.

*, Ferri Iodid. P.B., 7 lbs. @ 1/5 lb.

*, Ferri Phosph. Co., 7 lbs. @ 5 1/2 d. lb.

*, Hypophosph. Co. B.P.C., 7 lbs. @ 9 1/2 d. lb.

*, Pruni Virg. B.P., 8 lbs. @ 7 1/2 d. lb.

*, Rhamni, 7 lbs. @ 10 1/2 d. lb.

*, Rhei, P.B., 7 lbs. @ 8d. lb.

*, Scilla, P.B., 7 lbs. @ 5d. lb.

*, Sennæ, P.B., 7 lbs. @ 8 1/2 d. lb.

*, Tolut, P.B., 7 lbs. @ 8 1/2 d. lb.

Thymol, 7 lbs. @ 7/8 lb.; 1 lb. @ 8/6 lb.

Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; bond, 8 1/2 d. Aquos. 10d. lb.

*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6 1/2 d. Aquos. 1/- lb.

*Tinct. Benzoin Comp., P.B., 5 lbs. @ 3/6 lb.; bond, 9d.

*Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6 1/2 d. Aquos. 1/1 lb.

*Tinct. Cantbaridis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.

*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb. Aquos. 10d. lb.

*Tinct. Card. Comp., P.B., 5 lbs. @ 2/8 lb.; bond, 7 1/2 d. lb. Aquos. 1/- lb.

*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 7 1/2 d. lb. Aquos. 1/- lb.

*Tinct. Chlorof. c. Morph., B.P., 1885, 5 lbs. @ 2/- lb.; bond, 1/6 1/2 lb.

*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 1/0 1/2 lb. Aquos. 1/4 lb.

Turpentine (Best American), 1 gal. tins @ 3/10 each; Venice, Genuine, 40 lbs. @ 1/4 lb.; 9 lbs. @ 1/7 lb.; Venice kind, 1 cwt. @ 28/- cwt.; 14 lbs. @ 5d. lb.

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whilst the
defendant
answers
this
question.



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You and your assistants faithfully employ your time attending to the wants of the public. Do you see to it that, as a business man, trained in an honourable profession, you receive adequate remuneration for the time so spent, or do you philanthropically devote a goodly portion to supplying proprietaries which are over-priced by manufacturers wholly disinterested in your welfare ?

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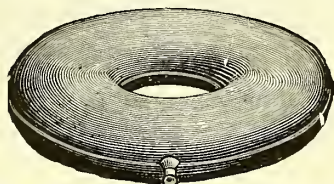
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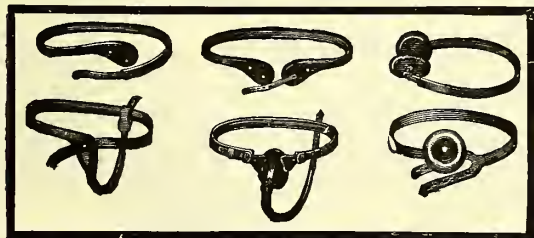
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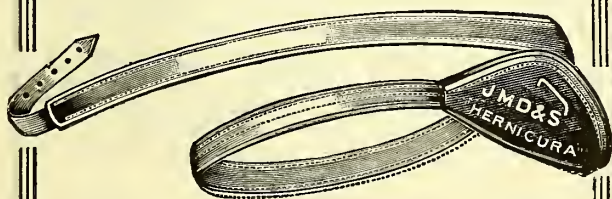
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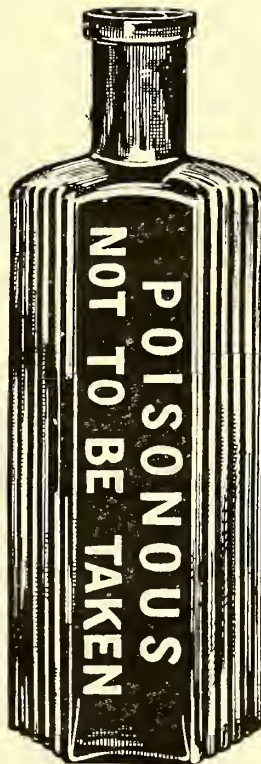
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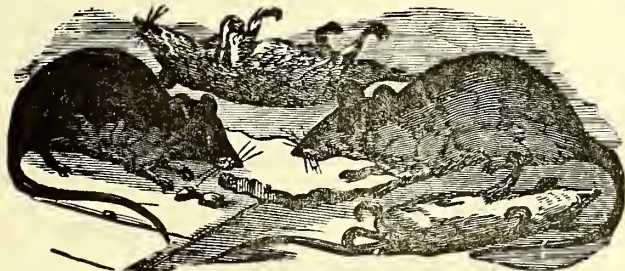
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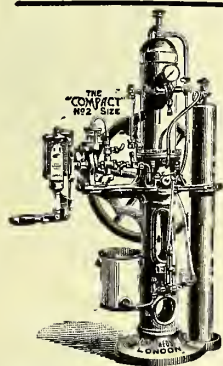
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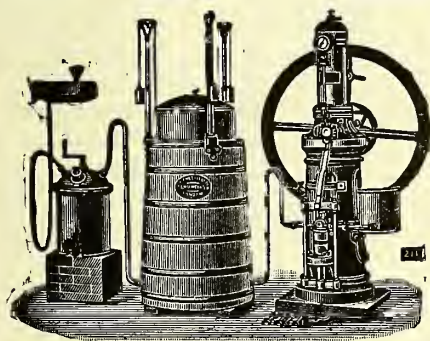
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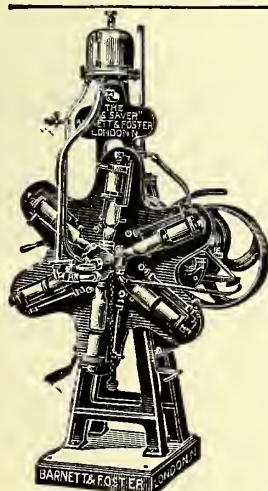
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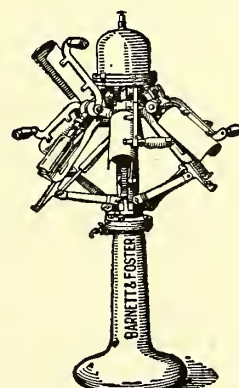
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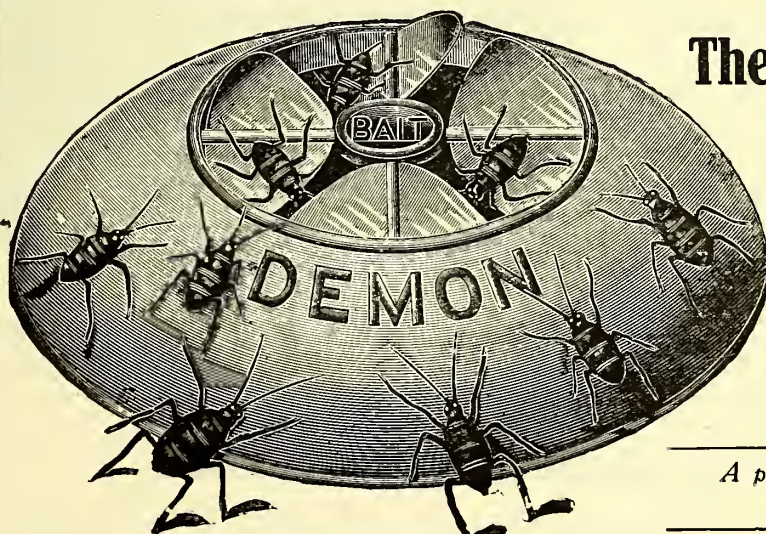


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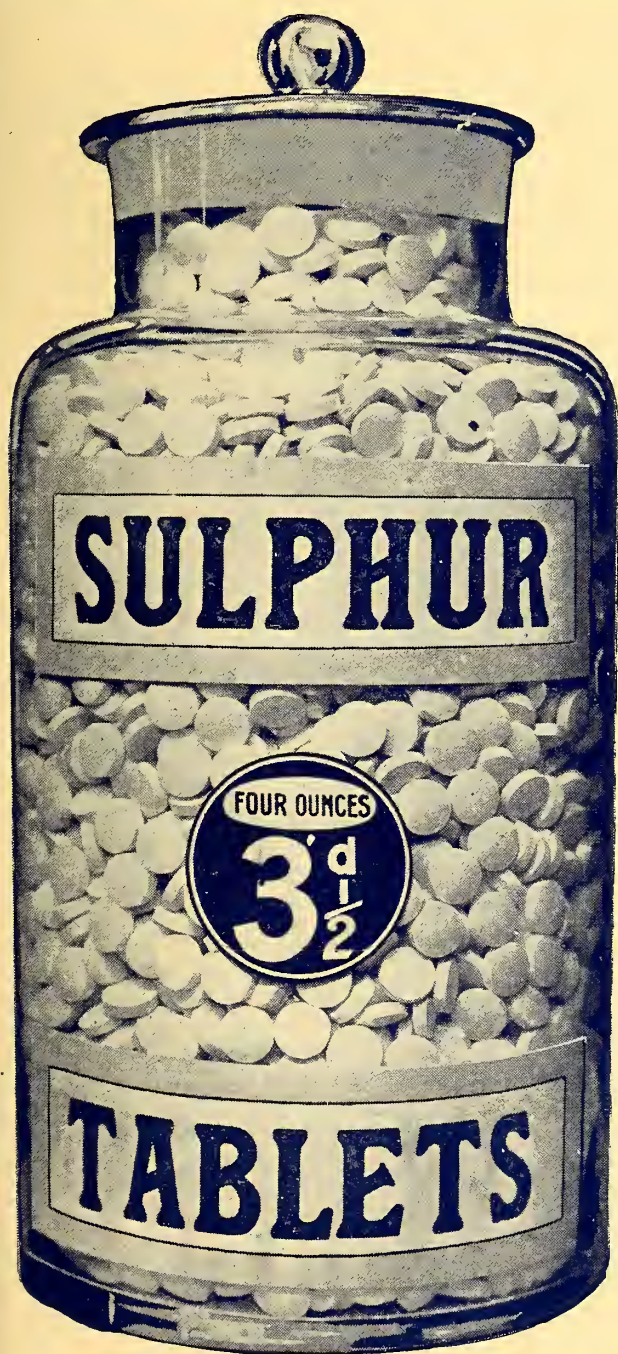
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EALING, W.—Doing over £1,000, increasing; good-class Retail Dispensing; fine chance for gentlemanly Chemist; good residential neighbourhood; rent £36; owner retiring from trade. 274/12, Office of this Paper.

EASTERN County.—Unopposed, good-class, Country Retail, Dispensing and Prescribing Business; returns £1,550; clear net profit £430; excellent house, with large garden; well-fitted shop, heavily stocked; cash price £875. Apply, Berdoo & Fish, Valuers, 55 Jewry Street, Fenchurch Street, City.

HEALTH RESORT (South Wales).—Sound modern Pharmacy for Disposal in very best position of popular seaside resort, all English; returns £2,400; net profit £650 clear; two Assistants kept; nice house; excellent stock; price £1,600, £400 can remain; exceptional offer. Apply, Berdoo & Fish, Valuers, 55 Jewry Street, London, E.C.

HOME COUNTY.—For Disposal, a very profitable Light Retail and Dispensing Business, returning over £500, increasing; low rent; no opposition; well fitted and stocked; excellent chance or beginner; price £300 or near offer. "Genuine" (11/20), Office of this Paper.

IRELAND, North.—Neat Pharmacy in select seaside resort; takings over £800 yearly and increasing; low rent; exceptional opportunity for capable Chemist and Extractor; price for immediate sale £420; references required. 13/40, Office of this Paper.

INCOLNSHIRE.—Unopposed Business for Sale; taking £10 per week; offers grand opportunity to energetic man. Apply, "Genuine" (11/16), Office of this Paper.

LONDON, S.E.—Good-class Retail and Dispensing; handsomely fitted and well stocked; rent £80, lease; excellent position; established over 30 years; turnover £1,500, increasing. Apply, "X. Y. Z.," 60 Bartholomew Close, London, E.C.

MANCHESTER District.—Old-established working-class Business; well stocked; returns about £450 without N.H.I.; good opening for Dispensing and Dentistry; £170. 8/35, Office of this Paper.

MANCHESTER (near).—Light Retail, in good position; returns, excluding N.H.I. about £400; lock-up shop; on Lanes. Panel; valuation of stock and fixtures, about £300; very good reasons for disposal. Apply "Bag" (13/6), Office of this Paper.

NEWPORT, Mon. (population 84,000).—To Chemists.—Death vacancy; old-established and successful Business of the late Dr. Eleazar Davis, Chemist, Commercial Street, Newport, is offered for Sale. Apply to Mr. Frank Lewis, Solicitor, Newport, 40n.

NORTH ENGLAND.—For Disposal in a busy go-ahead industrial town, good-class Light Retail, Prescribing Business; very profitable; own preparations pushed in place of profitless Patents; £4 a week net profit realised; price £250; splendid residence, with every convenience; rent £35; established 50 years. Immediate (12/20), Office of this Paper.

SURREY.—Death vacancy; good-class Light Retail and Dispensing Business; returns under manager over £1,000; with excellent profits; scope for increase; well fitted and stocked shop; good house; price £700 or offer. Apply, Berdoo & Fish, Valuers, 55 Jewry Street, Fenchurch Street, City.

YORK.—Old-established Chemist's Business; well stocked; mahogany fittings; everything up to date; nice family trade; on the panel; scope for development; good opening for Dentistry; busy thoroughfare; commodious house; every convenience; rent reasonable; excellent chance for energetic qualified man; bargain to a cash buyer. Apply, Mr. Cowgill, Chemist, 102 Walmgate, York.

CHEMIST and Druggist's Business for Sale, Harrogate.—For immediate Disposal, old-established high-class Pharmacy and Photographic Business; best position in this popular resort; stock, fixtures, and fittings at valuation; no price asked for the goodwill. For rent and other particulars apply to the Trustees: R. Pevsler, Albert Street, Harrogate, or G. Montague White, 14 Old Jewry Chambers, London, E.C.

EXCEPTIONAL opportunity occurs of acquiring Light Retail and Dispensing Business in residential locality, S.W., owing to illness; Pharmacy handsomely fitted and stocked; fine corner position; returns average £11 weekly; low rent on lease; price, value stock and fixtures only. Cash purchasers apply with bank references, "Genuine" (10/26), Office of this Paper.

FIRST cash offer over £400 will be accepted for a genuine Business in busy Lancashire town near Manchester; returns over £900 at good prices; almost unopposed; on two Insurance Panels; owner must sell immediately; good reasons and all information to bona-fide inquirers. Apply, "Calor" (14/1), Office of this Paper.

FOR Sale, old-established Chemist's Business, known as the Waterloo Pharmacy, Stroud. Particulars of S. J. Dudbridge & Sons, Stroud, Glos.

GOOD-CLASS Retail, Dispensing, and Prescribing, progressive town; charming country; returns £800, capable of increase; commodious modern premises; perfect sanitary arrangements; good garden, lawn, coachhouse; net rental £28; rates £8; new fittings, clean stock. Purchasers with £350 at command please enclose reference for further particulars, "Profitable" (13/13), Office of this Paper.

OLD-ESTABLISHED Business, in busy market town, easy distance from London, thoroughly well stocked, with Mineral-water Factory in perfect working order; very profitable and capable of great extension by investment of small additional capital; price £250, or near offer, considerably less than valuation of stock, fittings, and machinery; satisfactory reasons for disposal. 14/23, Office of this Paper.

OWNER Retiring. — For Sale, a very genuine old-established Chemist's Business, in midst of large manufacturing centre; excellent opportunity for qualified man. Full particulars, Alfred W. Dando & Co., Auctioneers, Dudley.

VILLAGE Business in Northamptonshire; 10 miles nearest opposition; returns 1913 about £600; net profit 30 to 33 per cent.; valuation accepted; immediate sale desired; proprietor not able to attend to two businesses. Full particulars from "F. G. H.," 8 High Street, Bileston, Staffs.

£700 Returns.—Light Retail Business; no heavy trade; good position; excellent house; in present hands for 16 years; price, valuation of stock and fixtures, about £250. 8/40, Office of this Paper.

BUSINESSES WANTED.

GOOD-CLASS Business wanted; healthy locality; town or country; advertiser prepared to invest up to £600; full details required; banker's reference given if necessary. 10/25, Office of this Paper.

PHARMACIST is desirous of purchasing privately in W. or S.W. London (or good-class residential town near) a sound Business, returning from £1,500 to £2,500; banker's reference given if desired; information treated with absolute secrecy. "Locum," c/o S. E. Amos, Chemist, Weybridge.

WANTED, small Light Retail Business; low price; moderate rent; scope for increase. "Cortex" (14/37), Office of this Paper.

AGENCIES.

AGENCIES or Correspondence undertaken by advertiser, who has Central London office and is well placed in all matters relating to Oils, Chemicals, General Produce, and Machinery. Address, "Tenans" (7/33), Office of this Paper.

FIRST-CLASS French house desire to take up sale in France of Chemicals, particularly those interesting the Rubber trade. Reply, 6/23, Office of this Paper.

OLIVE OIL.—Wholesale Agents wanted for first-class Italian farm for Liverpool, Manchester, Glasgow, Edinburgh, Dublin, Belfast, and all other important British places for Olive Oil; excellent references required; Manager will call in few days on all these places for personal interview. Apply, 12/32, Office of this Paper.

TO LET.

BLYTH, Northumberland.—To Let, large lock-up Shop, suitable for Chemist, situate best business part of the town, one minute's walk from the Railway Station; rent £65 per annum; immediate possession. For further particulars apply to Bateley & Bateley, House, Estate, and Land Agents, Central Buildings, Blyth.

IPSWICH, Foxhall Road.—House and Shop, three bedrooms and bathroom, in a new district, main road; good opening for Chemist; immediate possession; rent £25. Apply, F. Jarman, 55, Foxhall Road, Ipswich.

DOUBLE-FRONTED Shop and House; near large working-class neighbourhood; second main street, country town, near London; rent £45; rates low; good opening for Chemist. Further particulars and orders to view, apply, 10/39, Office of this Paper.

LARGE Warehouse, 97 ft. long, 21 ft. wide, centre 12 ft. 6 in.; wall 8 ft. 6 in. high; 3 fireproof doors, 6 skylights, 7 front lights; also large piece of ground, with Wharf accommodation. Apply, Manager, Spice and General Grinders, Ltd., Sugar House Lane, Stratford, E.

ROOMS, specially suited for Dentist, to Let, with or without living accommodation, over a good-class Pharmacy in main thoroughfare. Apply, "Western Pharmacists" (14/22), Office of this Paper.

TO Chemists.—Capital Shop and House at a good-class residential seaside resort, 70 miles out; A1 position; splend'd opening; good prices; very little opposition; rent £60, or freehold for sale. Apply, "D. F.," c/o Blairs, 11 King Street, Cheapside, E.C.

PARTNERSHIPS.

PARTNER wanted in an old-established Retail and Wholesale business in the North of England, to replace one recently retired; a young man with experience in good-class business, energy, and capital, would find this an excellent opportunity. Communications addressed "Alpha" (10/37), Office of this Paper, will be treated confidentially.

QUALIFIED man, open to invest from £250 to £300, desires active interest in good sound provincial business; good all-round experience; Partnership with view to ultimate purchase entertained. Address, 8/34, Office of this Paper.

WORKING Partner required by Baking Powder Manufacturers and Wholesale Druggists in Eastern Counties; qualification not necessary. Reply, stating capital available and experience, to Larking & Larking, Accountants, Orford Place, Norwich.

FOR SALE.

CHEMIST'S Stock, Fittings, Shop-rounds, etc.; North of England. Apply for particulars to "T. A. B.," c/o Raimes & Co., Wholesale Druggists, York.

NATIONAL Cash Register, up-to-date model, for Disposal (second-hand); working order as new. Write, Olsen, 53 Park Grove Road, Leytonstone, E.

WANTED.

CHEAP attractive lines in Toilet Preparations and Accessories, suitable for Chemists and Hairdressers; Combs, Hair, and Tooth Brushes, 2d. Soaps, all Rubber goods; job lots of above lines entertained. Write, "Factors" (7/8), Office of this Paper.

APPRENTICESHIPS.

APPRENTICESHIP—Wanted, to place youth of 17 in good-class business, Surrey district preferred, for 3 or 4 years; passed Prelim.; little knowledge of Counter and putting up stock. Address, "Seventeen" (13/34), Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

RESULTS	
OF ADVERTISING IN THIS SUPPLEMENT	
LAST WEEK	MAR 14 1914
NATURE OF ADVT.	REPLIES
TRAVELLER	17
WAREHOUSEMAN	17
UNQUAL. ASSIST.	16
SIT. WANTED	QUAL. 16
SIT. WANTED	UNQUAL. 15

This Blackboard demonstrates that Advertiser, using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETAIL.

BELPER, March 28.—Reliable and capable Managing Assistant for Light Family Retail and Dispensing business; indoors; very comfortable home; permanency for suitable man. Exors. of Bowler, Chemist, Belper.

BIRMINGHAM.—Manager, qualified, for small Branch; suit any one requiring permanency; must be good Salesman and Window-dresser; plenty of scope for progressive man. State age, salary required, references, and enclose photo if possible (this will be returned), Hall, Rexall Chemist, Selby Park, Birmingham.

BIRMINGHAM.—Wanted, competent, qualified Assistant (indoors) for first-class Retail and Dispensing business; of good address. Reply, enclosing carte, with full particulars, T. Chase, Pharmaceutical Chemist, Edgbaston, Birmingham.

BIRMINGHAM District.—Minor; undeniable references; state salary required; Insurance Dispensing; experience not necessary. Barlow, Blackheath, Birmingham.

BIRMINGHAM District.—Minor; lady; alternative to above advertisement. Barlow, Blackheath, Birmingham.

BRADFORD.—Wanted, unqualified Assistant for Mixed business and Insurance Dispensing. Apply, stating age and salary required, to R. H. Stephenson, 84 Barkerend Road, Bradford.

BRISTOL.—Wanted, a smart Junior or Improver. Apply, with full particulars of experience, height, salary required, etc., Mr. Hawker, Pharmacist, Gloucester Road, Bristol.

CHEESHIRE.—Good Assistant required for quick Cash Country trade (outdoors) as Senior; age between 20 and 30; good salary and permanent berth to suitable young gentleman. Please give full particulars in first letter to "Rexallite" (10/29), Office of this Paper.

CHICHESTER.—Junior wanted for Light Retail and Dispensing, with knowledge of Photography. Full particulars and salary required (outdoors), Sidney Bastow, Pharmaceutical Chemist, Chichester.

CITY.—Wanted, a Junior or Improver, age about 20, industrious and obliging; easy hours; no Sunday duty. Give full particulars, experience, references, and salary required, "X. Y. Z., City" (10/2), Office of this Paper.

COVENTRY.—Junior Assistant at once for Dispensing and Photographic business. State full particulars and salary required (outdoors), H. Wetton, White Street, Coventry.

CROWBOROUGH.—A thoroughly capable Junior required in good-class Dispensing business. Apply, with full particulars of experience, age, height, salary (indoors), G. H. F. Dier, Pharmacist, Crowborough.

DOVER.—Assistant (outdoors) in good-class Dispensing business; must be a good Stockkeeper and competent Dispenser. Please give full information, with references, in first letter, to Mr. Ewell, Alexander Bottle & Co., 37 Townwall Street, Dover.

HARROGATE.—Experienced, unqualified Assistant; about April 21; six months' engagement. Write age, height, experience, salary required (outdoors), Windemer, Chemist, Harrogate.

HULL.—Qualified Assistant wanted for working middle-class district; permanency for suitable man. State full particulars, with references, salary, photo if possible (to be returned), and when disengaged, to 11/25, Office of this Paper.

ILKLEY.—Wanted, a gentlemanly, capable Assistant in good-class Dispensing business; outdoors. Apply, with usual particulars, to A. Duckworth, Pharmaceutical Chemist, Ilkley.

KENSINGTON, W.—Junior Assistant required in a good-class Dispensing business; outdoors; no late duty; Sunday duty nominal. Apply, with usual details and enclose photo, to W. Ive, 221 High Street, Kensington, W.

LEAMINGTON.—Experienced Junior wanted; indoors. Apply, with usual particulars, to J. Price, 42 Bath Street, Leamington.

LEEDS.—Qualified Assistant wanted immediately to take charge of small business, with N.H.I. Dispensing; must be good Counterman and accurate Dispenser; good references essential. State age, experience, and salary required (with house if married), to Milburn, Pharmacist, 306 Kirkstall Road, Leeds.

LEEDS.—Manager for branch; married preferred; good house. Light Retail and N.H.I. Dispensing; permanency for good man. Age, salary, and all particulars to "Chemist" (9/28), Office of this Paper.

LONDON.—For the second week in April, a qualified Assistant, about 24 years of age; indoors; moderate hours. Apply stating age, experience, and salary expected, to H. S. Hairsine, 7 Haymarket, London.

LONDON.—Junior Assistant; unqualified; Scotsman preferred; good prospects for capable man. Apply, stating age, height, experience, and salary required (outdoors), to 10/22, Office of this Paper.

LONDON. outdoors; qualified Assistant; young, energetic, reliable; permanent, comfortable position for suitable man. Give references and salary required in first letter, 14/14, Office of this Paper.

LONDON, E.—For about 13th April, qualified Assistant, chiefly for N.I. Dispensing; commencing salary £2 10s. and commission; Hours—Monday, Tuesday, Wednesday, and Friday, 9 a.m. to 5 p.m.; Saturday 9 a.m. to 11 p.m.; Sunday, 6 p.m. to 9 p.m.; Thursday, 9 p.m. to 1 p.m. References and full particulars to 10/15, Office of this Paper.

LONDON, N.—Unqualified Junior Assistant; outdoors; good experience in Dispensing and Counter (knowledge of Optics not necessary). Apply, stating age, height, salary required, etc., to Burgess Dow, Pharmacist and Optician, 518 Hornsey Road, N.

LONDON, N.—Junior for good-class Family, Dispensing and Photographic business; outdoors. State salary required, age, height, experience, when disengaged, and enclose photo, Starmer, High Street, North Finchley, N.

LONDON, N.—Assistant for fair middle-class business, with N.H.I. Dispensing; two assistants kept. Apply, with full particulars as to experience, names of references, when disengaged, and salary required (indoors), "R. M." (14/2), Office of this Paper.

LONDON, N.E.—Wanted, Part-time Assistance, two or three afternoons and evenings a week; N.H.I. and small Retail. Letters only, stating qualification, experience, and salary, "X. Y. Z.," 397 Cambridge Road, N.E.

LONDON, N.E.—Junior Assistant (outdoors) for a good-class Suburban business. State age, height, experience, and salary expected, also enclose photo (if possible), to Matthews & Son, Chemists, 722 High Road, Leytonstone, N.E.

LONDON, N.W.—Lady Dispenser required for Doctor's Surgery. Apply, Dr. F. L. Sealy, 132 Brondesbury Road, N.W.

LONDON, S.E.—Assistant (outdoors) as Second (about 22) for good-class Dispensing business, with some knowledge of Photography. Particulars of experience and salary expected to Makepeace, Pharmacist, Sydenham.

LONDON, S.W.—Young unqualified Assistant; indoors (house close to shop); Cash business; hours 9 a.m. to 10 p.m.; every other Sunday 6 p.m. to 10 p.m. Apply, by letter, stating previous experience and salary required, "Z.," 52 Crescent Lane, South Side, Clapham Common, S.W.

LONDON, S.W.—Required, Dispenser; Minor qualification; salary to commence 50s. per week (outdoors); short hours, approximately 8.45 a.m. to 6.30 p.m.; no Sunday duty, and Saturday half-day; age under 30. Write, giving full particulars and experience, to 1544, Sells' Advertising Offices, Fleet Street, E.C.

LONDON, S.W.—Qualified Manager required at once to take charge Drug Stores in working-class locality; salary commencing £2 per week, with rooms; young married man preferred who can invest £100 and acquire half-share. Apply, 14/34, Office of this Paper.

LONDON, W.—A vacancy will arise about the middle of April for a qualified Junior Assistant, who has been accustomed to high-class Dispensing business. Please state full particulars to "Ajax," c/o S. Maw, Son & Sons, 7-12 Aldersgate Street, E.C.

LONDON, W.—Junior Assistant (young) for first-class Dispensing business. Dampney, 87 Abingdon Road, Kensington.

LONDON Suburb.—Qualified Branch Manager for good-class Retail, Dispensing, and Photographic; comfortable residential premises over shop; good prospect, with opportunity of acquiring an interest or purchasing business eventually. Give full particulars, including age, height, experience, salary expected, references, and photo, to 14/28, Office of this Paper.

LONDON Suburb.—Assistant, competent, unqualified; outdoors; good-class Retail, Dispensing, and Photographic experience essential. State age, height, experience, salary expected, when disengaged, photo (returned), Matthews, Dispensing Chemists, 146 Hoppers Road, Winchmore Hill, N.

MANCHESTER.—Qualified man to take charge; elderly not objected to. State age, salary required, references, and when at liberty in first letter to "Chemist," 27 Palatine Buildings, Brooks's Bar, Manchester.

MANCHESTER.—Junior or Improver. Apply, stating age, height, and full particulars, with references and salary required (outdoors), to Jeans, 151 Oxford Road, Manchester.

MANCHESTER.—Elderly Chemist (qualified) for N.H.I. Dispensing; permanency and comfortable berth for satisfactory applicant. 15/45, Office of this Paper.

MINEHEAD.—Junior Assistant for good-class Dispensing, with knowledge of Photography; Scotchman not objected; in- or out-doors; four in shop. Culverwell & Hawkins.

NEAR Manchester.—Wanted, an Assistant; Dispensing and Window-dressing. 7/9, Office of this Paper.

NEAR Oxford.—Wanted, qualified Assistant to take charge of Dispensing and assist in General Retail business. Apply, with full particulars, to 11/26, Office of this Paper.

OLDHAM.—Young qualified Assistant wanted; salary £3 per week and commission; must be quick and reliable and a good Salesman. State age, height, experience, references, and photo, 9/12, Office of this Paper.

RHYL, N. Wales.—Wanted, qualified Manager for branch, with sub-post office; must be reliable, honest, total abstainer, and good Counterman. Apply, stating age, experience, salary, and enclose photo, Gratton, Chemist, Queen Square, Rhyl.

SOUTH KENSINGTON, S.W.—Outdoor Assistant, age 25-30, required for April 6; must be active and obliging, a neat and accurate Dispenser, good Window-dresser and Salesman, and thoroughly reliable. Apply, with usual particulars, or personally, to P. Bolton, English and Foreign Chemist, 3 Sussex Place, South Kensington, S.W.

SEASIDE.—Wanted at once, for the summer months, capable qualified Assistant; indoors; good-class Dispensing and Counter experience essential. Apply, with full particulars, to W. H. Rouse, Pharmacist, Swanage, Dorset.

SOUTH WALES.—An unqualified Assistant wanted immediately (indoors or outdoors) for Mixed Retail and Dispensing. Apply, stating full particulars as regards experience, references, age, salary required, to 13/3, Office of this Paper.

STREATHAM, S.W.—Assistant, about 24, for good-class business; good salary and hours. Apply in writing, enclosing photo and usual particulars, to H. T. Ewert, Pharmacist and Optician, 284 High Road, Streatham, S.W.

WEST OF ENGLAND.—An outdoor Assistant for good-class Dispensing, Agricultural, and Photographic business; one who has been accustomed to travelling required. State height and send full particulars, with photo, to "S. J. E." (7/3), Office of this Paper.

WESTON-SUPER-MARE.—Active, capable Junior; about 20; outdoors. Send photo and full particulars, salary, Wing, 8 Boulevard, Weston-super-Mare.

WOOLWICH, S.E.—Junior Assistant (outdoors) required for good-class Dispensing and Photographic business. Apply to A. Goldthorpe, Chemist, 70 Herbert Road, Plumstead, S.E.

YORKS. West Riding.—Elderly qualified Chemist required immediately; permanency; easy hours. State salary required, 13/44, Office of this Paper.

ABOUT Easter.—Qualified man wanted to manage branch at Boston Spa, Yorks; one just qualified would do; indoors; thoroughly comfortable; easy hours; good-class Light Retail and Dispensing; no heavy trade. Apply, stating age, experience, references, etc., to J. H. Hull, Tadcaster.

AN Assistant, qualified; must be good Counterman and Dispenser; reliable; outdoors. Apply, stating full particulars and salary required, to L. Cameron, Pharmaceutical Chemist, Scaford, Sussex.

APOTHECARIES' Hall certificated or unqualified Assistant required at once for N.H.I. Dispensing, etc. State age and salary. Mason, Pharmacist, Pemberton, Lancs.

ASSISTANT for Optical Counter in first-class Dispensing and Optical business; an excellent opportunity of gaining experience in Optics; F.S.M.C. certificate not essential; no State Insurance Dispensing. State experience, with usual particulars, salary required (indoors), Saxby, F.S.M.C., Cheltenham.

ASSISTANT; outdoors; Dispensing, Light Retail, Photographic. Apply, with photo, references, and salary required, to W. Pitchford, 54 Cotham Hill, Bristol.

ASSISTANT (Junior) wanted; active and willing; qualified preferred, but not essential; first-class business; good opportunity. Apply, Mr. R. A. Robinson, 195 Brompton Road, London, S.W.

ASSISTANT, unqualified, for good-class business, with Photography; outdoors; age about 32; easy hours; no Sunday duty. Please send full particulars in first letter of age, height, experience, addresses of last three employers, salary required, and enclose photograph, to S. T. Hicks, Messrs. W. T. Hicks & Co., 23 Duke Street, Cardiff.

ASSISTANT, 23-25, indoors, early in April; accustomed to good-class Dispensing; unqualified; hours moderate. Full particulars and photo to W. A. Goodall, 273 Fulham Road, S.W.

ASSISTANT wanted for first-class Retail and Dispensing; outdoors. Apply, stating full particulars of height, age, salary required, etc., enclosing photo, to Balkwill & Co., 106 Old Town Street, Plymouth.

ASSISTANT; smart, competent, good appearance and address; high-class Midlands City Pharmacy, near Pharmacy School; hours easy; no extra or Sunday duty; offers excellent opportunity for improvement. 11/17, Office of this Paper.

ASSISTANT, unqualified, wanted, about 23; good Dispenser; one with West-End or South Coast experience preferred. State age, height, salary required, names of two last employers and time with each, 11/36, Office of this Paper.

AT once, or within a week or fortnight, good Assistant for General Retail and N.H.I. in working and middle class business; quick, useful man will receive good salary (outdoors), which will be increased within a reasonable time; personal application preferred; permanency. Williams, 189 High Street, Deptford.

AT once, a smart, reliable Assistant for Counter and Dispensing, with knowledge of Photo goods; also a young man for making and packing stock; good progressive salary offered. George & Co., Chemists, 127 and 129 Barking Road, East Ham.

CHEMIST and Dentist, doing all Mechanical work on premises, has vacancy for Assistant. Please state full particulars, age, experience, where obtained, ability in Pharmacy and Dentistry, if married, what family, class of business and hours needed, salary required, when disengaged, references, photo, Foeter, Ivydale, London Road, Portsmouth.

EARLY in April, experienced unqualified outdoor Assistant; must be quick at Counter and good Salesman; no Sunday duty; reasonable hours; half-holiday weekly; good salary and permanency to a suitable man. Apply, enclosing photo (to be returned), with full particulars, Fuller & Co., Chemists, Norwich.

ELDERLY qualified Chemist required for comfortable berth in London. State age, salary required, and when at liberty 13/41, Office of this Paper.

ELDERLY qualified Assistant for Light Retail and N.H.I. Dispensing Business; Locum or permanency; very easy situation; comfortable home; Lancashire. State salary required (in- or outdoors) and when at liberty to "Pinex" (11/9). Office of this Paper.

HALF-DAY help required (or outdoor Improver); one with some knowledge of Dispensing and Drugs in general. Apply, with full details and remuneration required, to Thornton, 100 Landor Road, Stockwell, S.W., near Clapham Road Tube Station.

HAYWARDS, Chemists, Leicester Square, Walsall, have an immediate vacancy for an outdoor Assistant, about 25 years of age. Please state salary required and give full particulars in first letter to H. D. Hayward, Proprietor.

HOSPITAL FOR CONSUMPTION, Brompton, S.W.—Junior Assistant Dispenser (male) wanted; Minor qualifications essential; commencing salary £100, increasing £5 yearly up to £130; hours 9.30 a.m. to 5.30 p.m., and later if necessary; luncheon provided, and, if working late, time allowed for tea; 14 days' leave a year. Applications, stating age, experience, hospital or otherwise, accompanied by two recent testimonials, to be addressed to the Secretary.

IMMEDIATELY.—Young qualified Assistant wanted for Dispensing business (indoors), London, S.W. "Statim" (13/11). Office of this Paper.

IMMEDIATELY.—Junior or good Improver, with some experience in Dispensing, for quick medium-class business; outdoors. Personal application, or full particulars in first letter, Gigner & Co., 160 King's Road, Chelsea.

IN April.—Competent gentlemanly Junior Assistant wanted; accustomed to good-class Retail and Dispensing; indoors. Full particulars of experience, salary required, with photo to Collins, Chemist, Woodhall Spa.

J. EDMUNDS & CO., LTD., Cash Chemists, 33 High Street, King'sland, London, N.E., require a smart qualified Assistant, capable and industrious; good salary to suitable man; must have good references; age not under 25. Apply, by letter in first instance, giving full particulars.

JUNIOR Assistant for Retail and Dispensing; unqualified; outdoors. Apply, with usual particulars, Deighton & Smith, Pharmacists, Bridgnorth.

JUNIOR or Improver; one just out of apprenticeship requiring good general all-round experience; outdoors; no Sunday duty abstanter. Apply, with full particulars of experience, age, height, salary required, and when disengaged, to Craven, Chemist, 12 Northgate, Cleckheaton.

JUNIOR Assistant or Improver wanted shortly in a good-class Country business. State age, height, and salary (outdoors). A. Bellamy, Louth, Lincs.

JUNIOR for Cash trade; outdoors; usual half-day and one Sunday duty in three. Apply, stating salary, etc., to Outtifford, 193 Langworthy Road, Seedley, Manchester.

JUNIOR Assistant for Dispensing and Retail; outdoors. E. W. Tristram, 335 Lea Bridge Road, Leyton, N.E.

JUNIOR Assistant (outdoors) near City; good at Counter and N.H.I. Dispensing, with knowledge of Photography; hours—Monday, Friday, and Saturday 8.30 a.m. to 9.30 p.m. with three hours off for meals, Wednesday off at 1.30 p.m., Tuesday and Thursday 10.30 a.m. to 10 p.m.; alternate Sunday evenings 6 p.m. to 10 p.m. Give full particulars as to age, experience, references, when disengaged, and salary required (by letter only), to "Golden Key," 20 Norton Folgate, London, N.E.

JUNIOR or Improver (outdoors) immediately for brisk Cash Retail and N.H.I.; good experience to be gained. Full particulars to Griffith, Pharmacist, Great Bridge, Staffs.

JUNIOR; good Dispenser; qualified preferred; outdoors. Apply, Mather, Pharmacist, Godalming.

JUNIOR wanted at once, usual hours and half-holiday; Photography essential. Full particulars (in- or out-doors) to A. J. Colston, Pharmacist, Malvern Wells.

JUNIOR for good-class Retail and Dispensing business; knowledge of Photography. Apply, with full particulars, enclosing photo, reference, etc., to Bayley, Downs Pharmacy, Herne Bay.

JUNIOR at once; duties chiefly Dispensing, very little Insurance; splendid experience; comfortable home; two kept; good hours; lovely country. Give full particulars in first letter, J. H. Hart, Ph.C., Ross-on-Wye.

JUNIOR Assistant wanted (indoors) for good-class Dispensing and Light Retail business near London; good salary paid to capable man. Apply, with usual particulars, W. Wade, 55 High Street, Sidcup, Kent.

JUNIOR or Improver (indoors) for Light Retail and Dispensing; time for study if required; no night or Sunday duty; half-day holiday weekly. W. Bishop, Chemist, Welshpool.

JUNIOR Assistant or Improver wanted, about 19; two kept; good Counterman, with Dispensing experience; hours moderate; half-holiday weekly. Apply, stating salary (outdoors), with reference, to A. Richardson, Pharmacist, 439 Hessle Road, Hull.

JUNIOR, age 21-23, for first-class Retail, Dispensing business, with knowledge of Photography, etc.; outdoors. Please give full particulars and experience, Perks & Llewellyn, Chemists, Hithin.

JUNIOR or Improver, just finished apprenticeship, for quick Cash middle-class trade; good reference essential; outdoors. Please give full particulars, Nidd, 714 Rochdale Road, Manchester.

JUNIOR Assistant wanted, unqualified, outdoors, Light Retail and Dispensing business; short hours. Write, stating age, experience, salary required, to Hoyle, Chemist, Southborough, Tunbridge Wells.

JUNIOR required for good business near London; state age, experience, and salary required; permanency. 13/42, Office of this Paper.

LADY Dispenser and Bookkeeper required by a Medical Practitioner in Crewe; salary £1 1s. a week to commence, with rooms and board; applicants must be within reasonable distance of Liverpool, as an interview will be necessary; knowledge of Shorthand and Typewriting a recommendation. Apply, R. Sumner & Co., Ltd., Wholesale Druggists, Liverpool.

LEWIS & BURROWS have a vacancy for a smart unqualified Assistant. Apply, with full particulars, to 146 Holborn Bars, E.C.

MANAGER required middle of April for new West-End branch; must have had first-class Dispensing and Counter experience; £3 per week and liberal commission to suitable man. Apply, giving full particulars of age, experience, etc., to 14/32, Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

MIDDLE-AGED or active elderly qualified Assistant (outdoors) for Limited Company, good Mixed business, in North Stafford; state particulars, salary, and, if convenient, photo (to be returned); comfortable situation. Apply, "Tablets" (10/31); Office of this Paper.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, have a vacancy for an unqualified Assistant; permanency and good salary.

PART-TIME; unqualified Assistant; three evenings per week; London, S.E.; chiefly Dispensing. State salary, "L. G." (12/21), Office of this Paper.

QUALIFIED elderly Chemist wanted; little work; short hours; age, salary required, and when disengaged. Apply "London, W." (9/35), Office of this Paper.

QUALIFIED Senior (or Junior entertained) for N.H.I. Dispensing and assist at Counter and in Management. State age, height, references, and salary required to "Nidlands" (11/37), Office of this Paper.

QUALIFIED Assistant as Senior required for good-class Retail and Dispensing business; must be a good Salesman and Dispenser; to live over premises with two other Assistants, but not with family. Please give full particulars and enclose photo, Procter, 5 Station Parade, Eastbourne.

QUALIFIED Pharmacist as Manager of branch wanted at once; quick Dispenser; outdoors. Give particulars of experience, age, salary required, when disengaged, etc., J. T. Egginton, Pharmacist, Sedgley, Dudley.

QUALIFIED Assistant, with first-class Dispensing experience, wanted; age about 25. Apply to the Manager, c/o Cooper, Son & Co., Ltd., 24 Elcane Street, London, S.W.

QUALIFIED Assistant required, of good appearance and address; preference given to young and energetic man; hours 8.30 to 7; Saturday 1 o'clock; no Sunday duty. Apply, with full particulars, to Burgess, Ltd., Ackers Street, Manchester.

QUALIFIED Assistant wanted; outdoors. Send usual particulars to T. Roberts, Ltd., Dresden, Stoke-on-Trent.

QUALIFIED Manager (outdoors) required for good-class Retail and Dispensing business; good salary and commission given to suitable applicant. Address, stating age, height, references, etc., and enclosing photo (to be returned), to T. Woodruff, Ph.C., 124 London Road, Hazel Grove, Cheshire.

QUALIFIED Branch Manager wanted for London; age from about 26 to 35; must be energetic, enterprising, have a knowledge of Photography, and able to dress or superintend the dressing of windows artistically and usefully; good salary and commission to good man; no one need apply whose references cannot bear the strictest investigation. Apply personally, between the hours of 10 and 11 a.m., or by letter, stating fullest particulars and enclosing, if possible, latest photograph, to Managing Director, Parke's Drug Stores, 65 Harmond Street, N.W.

QUALIFIED Junior Dispenser; indoors. Apply, stating age, height, experience, salary required, and enclose photo, to Giles, Sobacht & Co., Clifton, Bristol.

QUALIFIED Manager wanted to take charge of branch shop in Colliery district; easy hours; good salary to suitable man; age no detriment; outdoors; no heavy trade. Apply, giving references and particulars to Llewellyn, Chemist, Tonypandy, Glam.

QUALIFIED Manager required; must have had good experience and be a first-class Counterman. State age, when disengaged, and whether married, to 13/45, Office of this Paper.

QUALIFIED Manager required for branch business in colliery district (S. Wales); married preferred; to live on premises; good salary and commission to suitable man; permanency. 13/37, Office of this Paper.

QUALIFIED Assistant wanted; about 23; suitable for one who is leaving and returning to the Continental seasons. State when will be disengaged and full particulars, 11/360, Office of this Paper.

QUALIFIED Assistant; 25 to 30; indoors or outdoors; duties light; hours easy; would entertain elderly or delicate gentleman. Full particulars, etc., to "Seaside" (12/27), Office of this Paper.

QUALIFIED Assistant (outdoors) required early in April for first-class Country Retail and Dispensing; short hours; no Sunday duty; good Counterman and Dispenser; permanency. Apply, giving full particulars as to salary required, with copies of recent testimonials, to "B. A." (11/27), Office of this Paper.

REGISTERED Branch Manager, for March 30; experienced; to live over shop; salary and commission; permanency. State if now disengaged, name of last employer, and salary required, with house and light, to 11/40, Office of this Paper.

RELIABLE, competent Assistant wanted in April for Light Retail and Dispensing; reasonable hours. Apply, with full particulars, to J. Chambers, Pharmaceutical Chemist, Eastwood, Nottingham.

THOMPSON & CAPPER have a vacancy at Bradford for a young, smart, energetic, unqualified Assistant, and are prepared to pay a good salary; splendid opportunity for the right man. Apply, with full particulars, Thompson & Capper, Manesty Buildings, College Lane, Liverpool.

UNQUALIFIED Assistant, about 25, with good Dispensing and General experience. Apply, stating age, height, experience, with references and salary required (indoors preferred), to Thos. Carter, Pharmaceutical Chemist, Boughton, Chester.

UNQUALIFIED Assistant (outdoors) for two or three months; holiday relief; S.E. and S.W. London; one used to quick Cash trade and with Photographic knowledge preferred. Apply, 9/15, Office of this Paper.

UNQUALIFIED Assistant; one capable of looking after Business, keeping books, Counterman, etc.; increasing salary to good man; permanency if suitable. Bewling, Chemist, Pembroke Dock.

UNQUALIFIED married man wanted, able to Manage branch, smart Window-dresser and Salesman, for Drug Stores; only progressing man need apply; also smart Assistant for front Counter; state married or single. Full particulars, salary, height, and, if possible, photo, when disengaged, Edwards, 45 Old Steine, Brighton.

UNQUALIFIED Assistant; about 22; indoors; accustomed to good-class Dispensing; time for study, State usual and full particulars, and, if convenient, enclose photo, to G. Dauncey, 6 Nugent Terrace, St. John's Wood.

UNQUALIFIED, married Drug Stores Manager wanted at once; working-class district; reliable energetic man will have permanent progressive situation; please say age, height, experience, salary (unfurnished house and gas free), and references; photo (returnable) if possible; half-day; no Sunday or holiday duty. "East Yorkshire" (12/3), Office of this Paper.

WANTED, for May 1, a Junior Assistant; must have some Dispensing experience. Apply, stating salary required, to W. Gowen Cross & Son, Pharmaceutical Chemists, Shrewsbury.

YOUNG Junior, 19 to 20, wanted. State salary required (outdoors) and usual particulars, W. Roberts, Chemist, 73 Brook Street, Chester.

WHOLESALE.

LIVERPOOL District.—Drug Traveller wanted. 8/12, Office of this Paper.

LONDON house requires experienced Pill Maker. Apply, giving full particulars of experience, etc., to 9/10, Office of this Paper.

LONDON house requires experienced Tablet Maker and Granulator, accustomed to Aloes, etc. Write, 9/100, Office of this Paper.

AN established public limited company (capital £30,000) seeks qualified Chemist (Major preferred) to take entire control of Drug and Surgical Instrument Department; only successful men with up-to-date schemes and ideas of organising 1,600 customers need apply; the appointment secures 5-year contract; remuneration commencing £250 per annum, rising to £350, with seat on board and director's fees inclusive; investment qualification £300. Write, 14/16, Office of this Paper.

CHEMIST, qualified preferred, for Lancashire Wholesale house; must have experience, particularly in matters of despatch and control; good organiser and worker; commencing salary £130, increasing by £26 annually to £208; in confidence; several Juniors also required; smart, and with good knowledge of trade, not necessarily Wholesale; applications not replied to unless containing fullest particulars. 12/14, Office of this Paper.

COMPETENT all-round Assistant wanted for Laboratory; preferably with experience of Manufacturing processes. Apply, Davies, Sons & Co., Bridge Street, Derby.

DRUGGISTS, Wholesale (London), have vacancies for Juniors at Wet and Dry Counters; also Packers for home work; previous experience an advantage. State age and full particulars to "X. Y. Z." (164/440), Office of this Paper.

EXPERIENCED Counter hands, aged about 24, with good knowledge of Wets or Drys, required; progressive appointments for energetic and competent men. State record and wages required to 10/30, Office of this Paper.

FOR Laboratory.—Minor qualified Assistant; also strong Lad. Apply, before 11 or between 5 and 6 o'clock, or by letter, giving full particulars, to Staff Superintendent, Harrods, Ltd., 44 Hans Crescent, S.W.

LABORATORY Assistant; one used to manufacture of Toilet Preparations. Apply, stating age, experience, etc., to Sangers, 42a Hampstead Road, London, N.W.

LABORATORY.—Wanted, an Assistant, accustomed to preparing Liqueurs, Syrups, Concentrated Mixtures, etc. Address, stating age, experience, and wages required, "Borax" (161/27), Office of this Paper.

PERFUMERY and Toilet Soaps.—Town Traveller wanted, for London and Suburbs, on expenses and commission; must have had good and recent experience in selling for good manufacturers. Write, giving full particulars, to Breidenbach & Co., 48 Greek Street, Soho Square, London, W.

SMART Traveller wanted at once by Wholesale Manufacturing Druggist Sundries firm for London and Suburbs. 8/21, Office of this Paper.

SMART youth required for Surgical Sundries Department; one who has had one or two years' experience preferred. Allen & Hanbury, Ltd., 37 Lombard Street, London, E.C.

SUNDRIES and Surgical Instruments.—Wanted, by old-established firm (London), Assistant with experience in Wholesale and capable of helping manager in compilation of catalogues. Particulars, with age, to 165/42, Office of this Paper.

TRAVELLER visiting Chemists required to handle a new and successful advertised article on exceptionally high commission; sole representation granted over territory covered; no competition. Reply, 5/38, Office of this Paper.

VACANCY occurs in Laboratories of London Wholesale Druggists for a young man of good education; facilities given to one reading for examination; small salary to commence. State age, experience, etc., to 164/44, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

CHINA.—Qualified Chemist wanted for Shanghai; Minor preferred; four years' agreement; salary £22, £24, £26, and £28 per month respectively; second-class passage paid, via Siberia, and return passage on completion of agreement; must be a good Salesman. Apply, with all particulars of previous experience, to "Shanghai" (13/15), Office of this Paper.

MAITA.—Wanted, qualified Assistant, of good address, for first-class Pharmacy; good salary; passage paid out and home after a three years' engagement; inexpensive living; ideal winter climate. Apply, in first instance, to "W. H. McC.", c/o Messrs. Allen & Hanburys, Ltd., 37 Lombard Street, London, E.C.

SHANGHAI.—Qualified Assistant, about 23, required for old-established English Chemists; four years' agreement; passage paid out and home; terms (approximately) £180 first year, with annual advance of £24; furnished room and medical attendance provided. Apply, with full particulars, to 86/550, Office of this Paper.

REQUIRED, a fully qualified Chemist to take charge, in August, of a Pharmacy in India; age 30 to 35; four years' agreement; passage paid. Address, with all particulars, to "A. A.", c/o Henry S. King & Co., 65 Cornhill, E.C.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

[HOME.] RETAIL.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded.

AFTER Easter.—Junior, 21, 2 years' City experience, seeks situation; N.W. preferred. 7/11, Office of this Paper.

ASSISTANT, tall, disengaged, desires situation at seaside town; first-class Dispensing and Photographies. H. Q. Garner, St. Neots, Haslemere Road, Southsea.

ASSISTANT (20) requires position; Birmingham or district; 5½ years' town experience, Counter, Dispensing, and Photography. Smith, 10 Highfield Road, Dartford, Kent.

ASSISTANT, experienced, requires permanency early in May, outdoors; thorough references. 13/4, Office of this Paper.

ASSISTANT; part-time; London; 19; Chemist's son; Dispensing, quick Retail; best references. "Photography" (12/7), Office of this Paper.

AT liberty; qualified; 30; high-class Store and Dispensing; good Salesman, Manager, or Senior; excellent credentials. "Forward" (14/6), Office of this Paper.

BRANCH Pharmacy Manager; experience includes Dentistry and Optics; April; unregistered. 13/7, Office of this Paper.

CAPABLE, energetic Assistant; experienced London working-class trade; unqualified; 35s. (outdoors); disengaged. 14/33, Office of this Paper.

COMPETENT Assistant; 25; Dispensing, Counter, Photographic; abstainer; six years' varied experience; trustworthy and reliable; outdoors. "Beta" (11/21), Office of this Paper.

COMPETENT Assistant; disengaged soon; good Dispenser; first-class Counter experience, Photo; prize Window-dresser, etc. "Mac," 47 St. Donat's Road, S.E.

CONTINENTAL qualified Chemist, speaking French, German, and Italian, having experience in English Dispensing, requires situation. A. Wurtz, 76 York Road, Lambeth.

DISENGAGED April 14 to July 24.—Junior, 21, unqualified, 6 years' experience in best class of business, seeks position in London, W. or N.W. preferred. G. L. B. Williams, "Selborne," Baring Road, Beaconsfield.

DISENGAGED; whole or part time preferred; experienced first-class Dispensing; qualified Insurance Dispenser; quick and good Counterman. Gibson, 115 Scott-Elli's Gardens, St. John's Wood.

DISPENSER (Lady), qualified, experienced, excellent testimonials, seeks post, Leigh, Westcliff, or Southend. 15/3, Office of this Paper.

EVENING employment required by Lady Dispenser; qualified. "E. B." 7 Carleton Road, Holloway.

EVENINGS after 5; qualified; Counter or Dispensing. "L." 84 Huntley Street, W.C.

EXPERIENCED Pharmacist (37) desires engagement as Manager or Senior; West-End and Continental experience; excellent references; London preferred. "Medinal" 15/6, Office of this Paper.

GERMAN qualified Chemist (30), speaking fluently French and a little English, seeks position as Dispenser during the summer months; small salary required. 278/23, Office of this Paper.

HOSPITAL Locum; qualified Dispenser. Irving, 66 Rowfant Road, Balham, London, S.W.

IMPROVER, 2 years' experience, desires better knowledge of Dispensing. 7/5, Office of this Paper.

JUNIOR, 21, desires change; permanent or season; good references. 9/4, Office of this Paper.

JUNIOR; 19; disengaged Easter; 4 years' high-class Dispensing and Counter experience; Norfolk preferred. "Nip," "Lynburn," North Everard Street, King's Lynn.

JUNIOR, age 21, 7 years' experience, tall, seeks situation in Birmingham or near. "L. H.," 695 Foleshill Road, Coventry.

JUNIOR; tall; Counter, Dispensing; City preferred. D. Thompson, 85 Camden Road, N.W.

LADY Dispenser (certificated) desires post (daily) in or near London. "W.," 15 Dunmore Road, Wimbledon.

LADY Dispenser (Hall) requires post in London with Doctor; knowledge Shorthand, Bookkeeping, Nursing; three years' experience. "Colchicum" (7/34), Office of this Paper.

LADY Dispenser (Hall) requires post in or near Birmingham. K. Walker, Shenstone House, Sutton Coldfield.

LOCUM, otherwise; disengaged; 37; single; all-round experience; steady, reliable. "D.," 82 Marlborough Road, Romford.

LOCUM; experienced Prescriber, Counterman; abstainer; 49; single; excellent references; unregistered. "Terms," 73 St. Andrews, Uxbridge.

LOCUM or permanent; 32; distance no object; now disengaged; Dispensing, Counter, and Photography. J. R. Eden, 14 St. Aldate's, Oxford.

LOCUM; qualified; disengaged; thoroughly experienced and reliable. "Chemicus," 408 Uxbridge Road, W.

LOCUM; qualified; best recommendations; disengaged till Easter. 11/10, Office of this Paper.

LOCUM; 33; disengaged; married; qualified; or Manager or with view of succession to a genuine business. "Statim" (12/15), Office of this Paper.

LOCUM; 30; qualified; West-End, provincial experience; excellent references. N. Smart, Beach Road, Littlehampton.

MANAGER or Locum; middle-aged; active; varied experience; town or country; best references; disengaged. "M.P.S." (10/16), Office of this Paper.

MANAGER; qualified; London, exceptional qualifications; abstainer; tall; dependable. "Radium" (14/10), Office of this Paper.

MANAGERSHIP, view to succession (or suitable permanency not objected to); married; excellent references; good experiences in Light Retail and Dispensing; two situations in 12½ years; South of Midlands preferred. "Eureka" (10/25), Office of this Paper.

PART-TIME or Locum; qualified; tall; 39; good all-round experience, especially Dispensing. "Pharmacist," 9 Grant-bridge Street, Islington, N.

PHARMACIST, married, as Manager; Midlands, Manchester, or Liverpool district preferred. 9/30, Office of this Paper.

PHARMACIST, young, energetic, over 7 years in high-class Retail and Dispensing, requires post as Manager or Assistant, about end of April. 8/28, Office of this Paper.

PHARMACIST, 35, single, experienced Manager, seeks position of trust and responsibility; thoroughly reliable, energetic; excellent references; would entertain view to succession. Please give full particulars as to terms, etc., to 9/9, Office of this Paper.

PHARMACIST (42) seeks appointment as Manager or other responsible position, with or without view to succession; married; good references and experience. "Qualified" (11/29), Office of this Paper.

PORTER, Chemist's, seeks situation; age 23; 10 years' experience and excellent references; abstainer. "Pharmaceutical," 20 Buckingham Road, Aylesbury, Bucks.

QUALIFIED Russian Pharmacist, speaking French, German, Italian, Spanish, and English, desires berth as Assistant in London; 8 years' Parisian experience; knows B.P. preparations. Apply. 8/15, Office of this Paper.

QUALIFIED; Manager or Senior; married; young; total abstainer; seaside preferable; permanency; disengaged Easter. Apply, 9/34, Office of this Paper.

QUALIFIED Manager; Store and West-End experience. Hunter, 10 Popes Road, Brixton.

QUALIFIED; Manager or Locum; married; good experience. Burton, 35 Avenue Road, Blackheath, Birmingham.

QUALIFIED Manager; experienced; Extractor; Locum or permanency. Davies, Ty Cwrdd, Llwynhendy, near Llanelli.

QUALIFIED Manager; long and varied experience; disengaged. "Wrees," 8 Salisbury Road, Brislington, Bristol.

QUALIFIED; Managership (good permanent); middle-aged; married; London or near; first-class experience; excellent references. 10/38, Office of this Paper.

QUALIFIED; Locum, Branch, or Part-time. "Chemist," 34 Wornington Road, Westbourne Park, W.

QUALIFIED; outdoors; tall; young; Dispensing, Counter; now at liberty; S.W. district preferred. Apply, "Statim," 49 Elizabeth Street, Belgravia, S.W.

QUALIFIED; Manager, Locum; exceptionally good all-round experience; good Counterman and Dispenser; satisfactory references; thoroughly reliable. "Aspirin," 78 Upper Tulse Hill, Brixton Hill, S.W.

QUALIFIED; 29; abstainer; disengaged soon; outdoors; Assistant or Branch Manager. "M.P.S.," 268 Kingsland Road, N.E.

QUALIFIED Manager; 33; excellent all-round experience; disengaged shortly; Lancashire preferred. "Iridin" 29 West Bank, Stamford Hill, London.

THURSDAYS, evenings, Sundays free; N.H.I. or Retail. "Qualified," 45 Ossar Street, S.E.

UNQUALIFIED; 21; good appearance; abstainer; good Dispenser; Counter and Photographic experience; disengaged May; North Yorkshire or South Durham preferred. "Pharmakon" (9/29), Office of this Paper.

UNQUALIFIED Assistant; 23; 7½ years' experience; Prescriber, Dispenser, Photographer; excellent Salesman and Window-dresser; disengaged March 28; excellent references; present situation 2 years; 5 ft. 10½ in.; take charge; requires permanent position; excellent chance for Chemist to obtain reliable man; wages 45s. weekly; preference near London, but not necessary. Apply at once, "Reliable" (7/36), Office of this Paper.

UNQUALIFIED; Assistant, Senior, or Manager; confidential; 29; tall; capable; first-class experience all branches, with business ability, tact, personality, and energy; present situation 7 years; London preferred. "P.," 59 Aytoun Road, Brixton.

UNQUALIFIED Dispenser seeks situation with Doctor or large Chemist in Liverpool preferably or London; 3½ years' experience. Apply, Post Office, Barrowford, Nelson.

UNQUALIFIED Assistant; disengaged shortly; country town; Retail, Dispensing, N.H.I.; Extractor; single. "Aspirin" (11/3), Office of this Paper.

UNQUALIFIED, competent, energetic Assistant (35) requires temporary or permanent berth; Norwich or surroundings; disengaged 28th; Agricultural, Dispensing, Photo, and General experience; well recommended. Gostling, 3 Palmerston Street, Woodborough Road, Nottingham.

UNQUALIFIED, competent Assistant; 23; smart appearance; 7 years' high-class experience; Norwich or Cromer preferred. "Rhei," 77 Marine Parade, Worthing.

UNQUALIFIED Assistant (29), reliable, competent; tall; of good address; high-class Dispensing experience; disengaged March 31; good references; South preferred; please give full particulars in first letter. Reply, "C. A. B.," 5 Penywern Road, Earls Court, S.W.

UNQUALIFIED; disengaged Easter; Manager or Senior; married; 39; thorough all-round experience; London district preferred. Apply, 10/19, Office of this Paper.

UNQUALIFIED Assistant; smart tactful Salesman; Window-dresser; Dispensing; excellent references. Apply, 10/33, Office of this Paper.

UNQUALIFIED; 26; first-class Dispensing and Counter experience; good Window-dresser; disengaged. Apply, Kirby, 31 Goldsmith Avenue, Acton.

UNQUALIFIED; thoroughly energetic; Manager or Locum; good Counterman; abstainer. "Radix," 166 Hanley Road, N.

UNQUALIFIED, experienced Assistant, 26, shortly disengaged, seeks engagement (London); well recommended; excellent Dispensing, Counter, and Photographic in first-class London businesses. "Salacetol" (15/7), Office of this Paper.

UNQUALIFIED Manager; first-class references; good experience; 30; tall; sober, reliable; good Salesman and Window-dresser. "Enterprise," 44 Park Hill Road, Belsize Park, London.

YOUTH (16), tall, gentlemanly appearance, secondary-school education, present employment Wholesale Sundry business, would prefer to enter Retail Chemist's as Learner and have plenty of work; salary 5s. (indoors). Letters, "B." (12/23), Office of this Paper.

WHOLESALE.

Price lists, trade circulars, samples, and printed matter can in no case be forwarded.

A GENTLEMAN, fully qualified, with a good connection, calling on Chemists and Stores throughout Great Britain, is desirous of taking up a good Sideline; salary and commission. Address, "Opium" (14/7), Office of this Paper.

ADDITIONAL lines in Soaps, Packed Goods, Pharmaceuticals, or Sundries required for London. "Push" (14/90), Office of this Paper.

ADVERTISER, 30, desires position; 12 years' Office experience. Wholesale; 18 months' Travelling experience. 12/36, Office of this Paper.

ADVERTISER, connection (London and Suburbs) Chemists, requires Agency; part expenses and commission. 10/12, Office of this Paper.

AMBITIOUS young man (24) requires post as Traveller, Wholesale Office, Retail, and Travelling experience; would accept indoor post with view to travelling. 14/8 Office of this Paper.

AS Representative; 12 years' London connection, Packed Goods, Pharmaceuticals, Perfumery, Soaps, and Sundries; exceptional opportunity for provincial house. "Top Notch" (14/9), Office of this Paper.

CASHIER, Bookkeeper, Traveller, or position of trust; unqualified; 36; moderate salary; fidelity guarantee. 15/8, Office of this Paper.

GENTLEMANLY Assistant, 28, tall, desires position as Traveller or post in Wholesale; good appearance and address; smart salesman; West-End experience. 8/24, Office of this Paper.

LABORATORY.—Young man (26) seeks situation, Emulsions, Tincts., Syrups, Ointments; 8 years' experience; town or country. "J. W.," 1 Severn street, St. George's, E.

MANAGERESS.—English lady, 7 years' experience in German and English Chemical Works, requires similar situation. Apply, "Anglo-German" (8/3), Office of this Paper.

MEDICAL man returning Central America would arrange Wholesale permanent distribution of Pharmaceutical products. Apply, Professor Muller, 12 Chester Place, Regent's Park, London.

TRAVELLER, Toilet and Perfumery; North of England connection; energetic, and excellent record; firm doing Chemist's own brand goods preferred; 10 years' experience of the trade; at liberty May 1. 7/6, Office of this Paper.

TRAVELLER, over 8 years with leading firm, wishes appointment for Lancashire and Midlands; substantial connections with Chemists; expenses allowance and commission preferred. 11/23, Office of this Paper.

WHOLESALE Drug and Surgical Instruments.—Gentleman (40), with good experience, excellent references, seeks change. "Mediens," 954, Willing's, 125 Strand, W.C.

SITUATIONS WANTED.

(Colonial, Indian and Foreign.)

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

WEST AUSTRALIA.—Qualified Pharmacist (G.B.) desires situation in Western Australia as Manager or Assistant with a view to succession. Address, 12/40, Office of this Paper.

YOUNG man, 22, desires situation abroad; 8 years' Wholesale experience. Reply, "C. B." (9/1), Office of this Paper.

MISCELLANEOUS.

MADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Leo Green.

Shares for Sale (free of commission, subject).—50 Apollinaris Ordinary, £7 17s.; 500 Angostura Bitters 6 per cent. Preference, 17s. 6d.; 325 Allenbury "B" 6 per cent. Preference, 23s. 9d. c.d.; 15 J. Crossfield's Preference, 24s. 10½d.; 130 Boots Southern 6 per cent. "B" Preference, 24s. 1½d.; 40 Meggeson Preference, 95s. c.d.; 160 Veno's Drug, 21s. 9d. x.d.; 120 Wright, Layman Preference, 21s. 7½d. c.d.; 150 A. J. White, 7s. 9d.; 200 International Sponge 6 per cent. Preference, 11s. 1½d.; 200 Ilford Ordinary, 15s. 3d., 200 Preference, 20s. 4½d.

Wanted (subject).—Lewis & Burrows Preference; Camwal Preference; Idris Debutures; 50 Wright, Layman Preference, 20s. 9d. c.d.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.C.

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BEST cash price for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool. E.

SODA-WATER Trolley, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; dozens in use in all parts of the country; carriage paid, 37s. Sole Makers, Arthur & Co., 9 K.P., Cambridge.

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DECEASED chemist's trade recipe book, containing over 300 valuable formulas; 30s.; bargain. "Executor," 8 Crindau Road, Newport, Mon.

ONE shilling each: Bell and Redwood's "Progress of Pharmacy"; Helbing's "Modern Materia Medica"; Lescher's "Elements of Pharmacy"; Pavy's "Food and Dietetics"; Schenk's "Theory of Sex"; Wills' "Materia Medica"; Walker's "Household Dictionary of Medicine"; Edmunds' "Law of Copyright"; Salaman's "Trade-marks"; Vogel's "Chemistry of Light and Photography"; Sloane's "Home Experiments in Science"; Arnold-Forster's "Coming of the Kilogram." Rose, 58 North Hill, Highgate, N.

OPTICAL AND PHOTOGRAPHIC.

No. 3 special Kodak, 1913, with accessories; excellent condition; what offers? 8/31, Office of this Paper.

WHAT offers? Ross industrial microscope, eclipse stand, cost £10; quite new. Particulars from Finlayson, Pharmacist, Stockton-on-Tees.

SHOP FITTINGS.

WHAT offers? O'Brien's check till, coupon giving, coin exhibitor, as new. Churchyard, Harleston.

DISPENSING-SCREEN and counter, 5 ft. by 5 ft., in splendid condition, £4. Chantler, Park Square, Luton.

SHOP rounds, 110 assorted; 12 pink dome-top jars, recess labels; nest drug drawers. 73a Newport Road, Middlesbrough.

MISCELLANEOUS.

PILL plant, 3 grain; cost £18; take £12; used once. 6 Alwyne Square, Canonbury, N.

A. & H. personal weighing machine in working order; 12s. 6d. carriage forward. Evans, Margate.

4 DOZ. each 6-yard packet plain and cyanide gauze; 5s. and 6s. doz., or offer. 14/21, Office of this Paper.

COLLAPSIBLE tube filling machine; nearly new; 10 gall. capacity; cost £13 10s.; owner no further use; no reasonable offer refused. King, Wolsey Street, Nottingham.

YOST typewriter, No. 6 size, 70s.; safe, fireproof, by Withers, size 30 by 23 by 23, two drawers and two shelves, £5 5s.; pair dispensing scales, 6s. 6d. 13/16, Office of this Paper.

STUDENT'S microscope, ½ and ¾ in. objectives, coarse and fine adjustment, double nose-piece, in mahogany case, £3 3s., carriage paid; Abbe condenser, with iris diaphragm, 12s. 6d.; Leitz' 1-12 in. oil-immersion achromatic objective and No. 5 Huyghenian eyepiece, 55s.; bacteriological incubator by Sartorius, 10 in. by 10 in. by 11 in., two shelves, 55s. (cost £6 10s.). Bell, 78 Princes Road, Middlesbrough.

WANTED.

WANTED, evening tuition for Preliminary. Aubert, 41 Coram Street, W.C.

DESK, with or without perfume case; pill machine, grs. v. Meyrick, 34 James Street, W.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

ADDRESSES WANTED.

WILL someone oblige with present address of George Nesbit Wynne, M.D., late of Ashton-under-Lyne? John Parkes & Co., Warwick.

WOULD any pharmacist oblige with the present address of Mr. Alexander Smith, chemist's assistant, late of Tunbridge Wells and Westgate-on-Sea? Evans, Chemist, Margate.

TRADE-MARKS.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1914, p. 237.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. W. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

(From the "Trade-marks Journal," February 25, 1914.)

"MARBROCKIA"; for perfumery, etc. (48). By P. G. W. Jackson, 14 Uverdale Road, King's Road, Chelsea, London, S.W. 358,008.

"MATIK"; for toilet-brushes (50). By Low, Son & Haydon, Ltd., 5 Great Queen Street, London, W.C. 357,823.

(From the "Trade-marks Journal," March 4, 1914.)

"FLOORCLEN"; for a liquid disinfectant (2). By the Sweepstod Co., Ltd., 29A Banastre Road, Southport, 357,315.

Device of aeroplanes, with words "VANGUARD WELL AHEAD"; for all goods (2). By the Vanguard Manufacturing Co., 3 and 4 Queen Square, Leeds. 357,740.

"CELERYTE"; for chemicals (2). By McDougall Bros., Ltd., 66 and 68 Port Street, Manchester. 358,237.

"ANIMOL"; for veterinary chemicals (2); "RUSCARS," for animal-food (42). By L. C. Tipper, 43-45 Homer Street, Balsall Heath, Birmingham. 358,251, 357,747.

"SOLIPINE"; for a pulmonary medicine (3). By J. G. Lobbett, 33 Edgware Road, London, W. 356,967.

Device of knees and jar; for a liniment (3). By Midland Drug Co., Goldsmith Street, Nottingham. 356,443.

"VIRILLA"; for medicated paper (3), and for non-medicated toilet-paper (39). By the Paper Cutting and Toilet Requisite Co., Ltd., 26 Grove Park, Camberwell, London. 357,029/30.

Circular label with words "ADRENOFER ACHILLE SELAVO SIENA"; for pharmaceutical products (3). By Achille Selavo, 2 Via Cavallerizzo, Siena, Italy. 357,144.

"SANTROCYL"; for a medicine (3). By Mawson & Co., Canterbury Grove, West Norwood, S.E. 357,568.

"LENITOSE"; for skin-preparations (3), and for all goods (48). By A. Wulffing & Co., 12 Chenics Street, London. 357,770/1.

"INOLAK"; for medicinal chemicals (3). By W. S. Propert, 65 Whiteladies Road, Bristol. 357,806.

"FIGLEUM"; for medicinal chemicals (3). By T. Kerfoot, Bardsley, Lancs. 358,044.

Circular device with word "HORTOL"; for a dentifrice (48). By the Horton Liquid Soap Co., Ltd., 48 Great Russell Street, London, W.C. 352,811.

Label devices with Burmese characters and words "PHOAT THATE PERFUME, AUK-MI-BUR, MINGLA, POSEIN, AUNG BALA, TOCHITPA, THISA, NAMBA"; also words "LOVE AND LAUGHTER"; for perfumery, etc. (48). By Yardley & Co., 105 Carpenter's Road, Stratford, London, E. 346,043/49/51/52/53/56/60/78, 358,117.

"PRODOL"; for perfumery, etc. (48). By Providol G.m.b.H., 104 Alt-Moabit, Berlin. 357,119.

"LYSVAL"; for perfumery, etc. (48). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 357,888.

"NUXOCOL"; for a toilet-article for the hair (48). By R. Blackie, Shen Works, Tower Bridge Road, London, S.E. 358,016.

"SILMERINE"; for a hair-preparation (48). By Dearborn, Ltd., 32 and 34 Theobalds Road, London, W.C. 358,291.

"PARSIFAL"; for perfumery, etc. (48). By A. Meehan, 200 Marylebone Road, London, N.W. 358,336.

Device of bridge, with words "LONDON BRIDGE BRAND" and facsimile signature "WILKINS, CAMPBELL & Co."; for an artificial pumice-stone preparation (50). By Wilkins, Campbell & Co., 24-25 Great Tower Street, London, E.C. 357,258.

"KABROLIT"; for non-inflammable celluloid combs and hair-ornaments (50). By Kleeman Bros., 46 and 47 Red-cross Street, London, E.C. 358,174.

"AMERAX"; for polishes (50). By Haywards, 35 Leicester Square, Walsall. 358,255.

(From the "Trade-marks Journal," March 11, 1914.)

"SANCO"; for chemicals (2). By M. Smith & Co., Church Street, Kidderminster. 357,971.

"ZEWAKA"; for medical preparations (3). By J. L. Francis, Francis Road, Myanaung, Lower Burma. 354,135.

"ASTHENOID"; for a rheumatism-medicine (3). By F. Ihlau, 59 Augustastraße, Stettin, Germany. 355,510.

POISONING FATALITIES.

FIVE deaths from poisons are recorded since our last issue.

Laudanum caused the self-inflicted death of Reuben Barnard (62), commercial agent, Southampton.

Oxalic Acid was used for suicidal purposes by James Sterick (46), chair-maker, Bethnal Green.

Potassium Cyanide caused the death of Henry Charles Kerby (45), walking-stick maker, Islington.

Prussic Acid.—Eleanor Watt, widow, poisoned herself at Fulham with this chemical. Her husband, a veterinary surgeon, had died suddenly a few days previously, and the poison was obtained from his surgery.

Salt of Lemon.—Catherine Dugly (41), married, Newhey, committed suicide with this poison.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Wednesday, March 25.

Association of Women Pharmacists, Gordon Hall, Gordon Square, London, W.C., at 8 P.M. Miss Hessel on "Public Morality—Some Social Aspects of the Question."

Public Pharmacists' and Dispensers' Association, 17 Bloomsbury Square, London, W.C., at 8 P.M. Mr. W. E. Schall, B.Sc., will give a lecture and demonstration on "X-Ray."

Dundee and East of Scotland Pharmaceutical Association, Driffen & Jarvie's Tea Rooms, Dundee, at 6.15 P.M. Whist-drive and supper. Tickets (lady's 5s., gentleman's 6s.) from Mr. J. P. Ferrier, 2 Hilltown, Dundee.

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, at 8.30 P.M. Communications by Messrs. E. O. Rowland and J. Adamson.

Liverpool Chemists' Association, Royal Institution, Colquitt Street, at 8 P.M. Mr. Harold Wyatt on "Dispensing Notes."

Manchester and Salford Chemists' Assistants' Association, Clarion Café, Market Street, Manchester, at 8.15 P.M. Mr. F. Dickinson on "Poison Regulations."

Plymouth, Devonport, and Stonehouse Pharmacists' Association, 7 Whimble Street, Plymouth, at 8 P.M. Mr. J. D. Turner will deliver a lecture and show lantern-slides of "Messrs. Burroughs Wellcome & Co.'s Materia Medica Farm."

Cardiff Pharmaceutical Association, Angel Hotel, at 3 P.M. Alteration of rules.

Thursday, March 26.

Institute of Chemistry, King's College, Strand, London, W.C., at 8 P.M. Mr. Wm. Macnab, lecture (II.) on "Explosives."

Institute of Ophthalmic Opticians, Holborn Restaurant, London, W.C. At 4 P.M. Council-meeting; at 5.30 P.M., annual general meeting; at 7.30 P.M., annual dinner.

London Chemists' Golfing Society, Trocadero Restaurant, Piccadilly Circus, W., at 7.30 P.M. Annual dinner, under the presidency of Mr. T. E. Leecher. Tickets may be had from the Secretary, Mr. J. Hepburn, 24 Great Tower Street, E.C., before March 25.

Chemists' Assistants' Association, Visit to King's College Hospital, Denmark Hill, London, S.E.

"P. D." Cricket and Swimming Clubs, Pillar Hall, Victoria Station, London, S.W., at 7.30 P.M. Annual Bohemian concert. Tickets (1s. each) from Mr. H. Phippard or Mr. C. E. MacMillan, 50 Beak Street, Regent Street, W.

Sheffield Chemical and Pharmaceutical Society, Literary and Philosophical Society's Rooms, at 8 P.M. Professor H. G. Greenish, lantern-lecture on "The Drug Markets at Home and Abroad." Mr. H. G. Williams, Hon. Secretary, The Moor, Sheffield, will gladly supply tickets to students and others who are not members of the Society.

Friday, March 27.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Professor J. A. Fleming on "Improvements in Long-distance Telephony."

South-Western Polytechnic Institute, Mangrove Road, Chelsea, London, S.W., at 8 P.M. Distribution of prizes and certificates by Lord Chelmsford.

Complimentary Dinner to Mr. Harry Hickey, Florence Restaurant, Rupert Street, London, W., at 7.30 P.M. Tickets (5s. each) may be had from Mr. Lionel Cooper, 14 Henrietta Street, Covent Garden, London, W.C.

LONDON (S.W.) PHARMACISTS' ASSOCIATION.—The annual dinner will be held at the Restaurant Frascati, Oxford Street, W., on April 29. Tickets (7s. 6d. each) from Mr. E. A. Atkins, Hon. Secretary, 71 East Hill, Wandsworth, S.W.

CHEMISTS' ASSISTANTS' ASSOCIATION.—The thirty-seventh annual dinner will be held in the King's Hall, Holborn Restaurant, London, W.C., on April 2. Tickets (5s. 6d. each) from Mr. A. R. Arrowsmith, Dinner Secretary, 4 Stratford Place, W.

GLASGOW AND WEST OF SCOTLAND CHEMISTS' ASSOCIATION.—A whist-drive and dance will be held on March 31 at Burlington House, 183 Bath Street, Glasgow. Tickets (lady's 3s., gentleman's 3s. 6d.), from Mr. W. J. Moffat, 741 Pollokshaws Road, or any member of the Committee.